

1. Duty Cycle

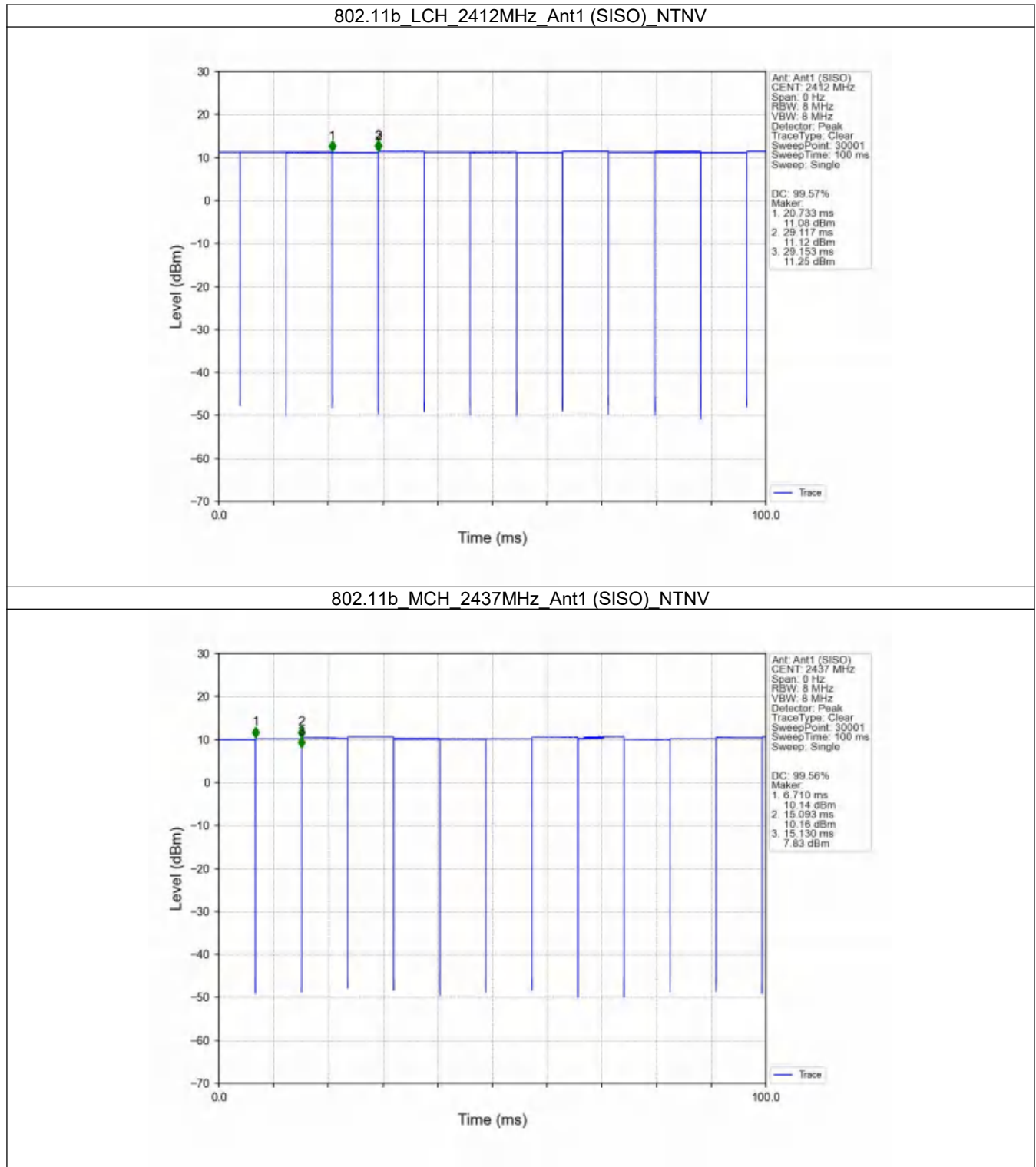
1.1 Test Result

1.1.1 Ant1

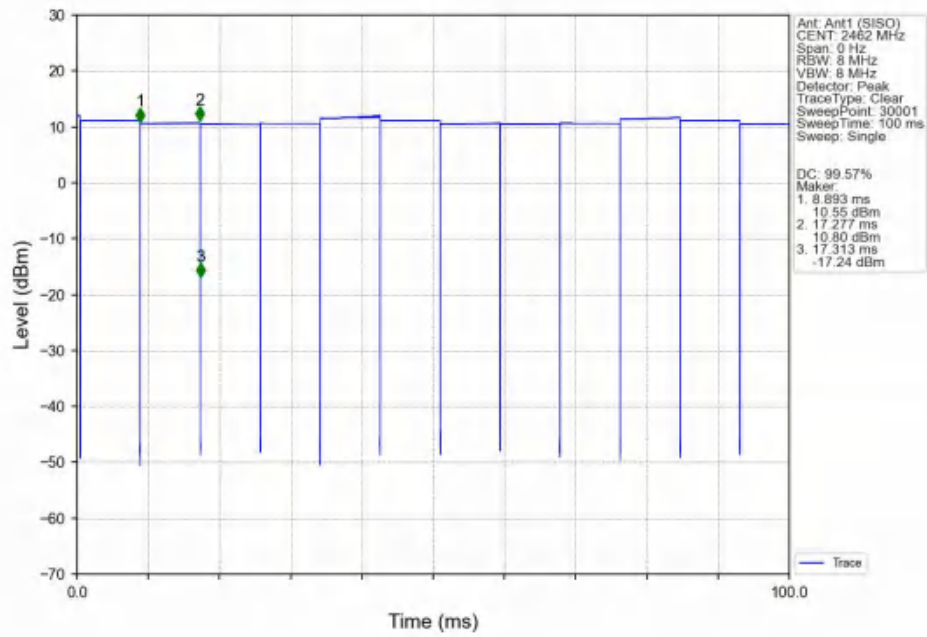
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.384	8.420	99.57	0.02	0.04
		2437	/	/	8.383	8.420	99.56	0.02	0.00
		2462	/	/	8.384	8.420	99.57	0.02	0.00
802.11g	SISO	2412	/	/	1.394	1.436	97.08	0.13	0.03
		2437	/	/	1.394	1.436	97.08	0.13	0.03
		2462	/	/	1.394	1.437	97.01	0.13	0.03
802.11n (HT20)	SISO	2412	/	/	1.302	1.345	96.80	0.14	0.03
		2437	/	/	1.302	1.344	96.88	0.14	0.03
		2462	/	/	1.302	1.344	96.88	0.14	0.03
802.11ax (HEW20)	SISO	2412	SU	/	1.313	1.357	96.76	0.14	0.03
		2437	SU	/	1.313	1.356	96.83	0.14	0.00
		2462	SU	/	1.312	1.357	96.68	0.15	0.03

1.2 Test Graph

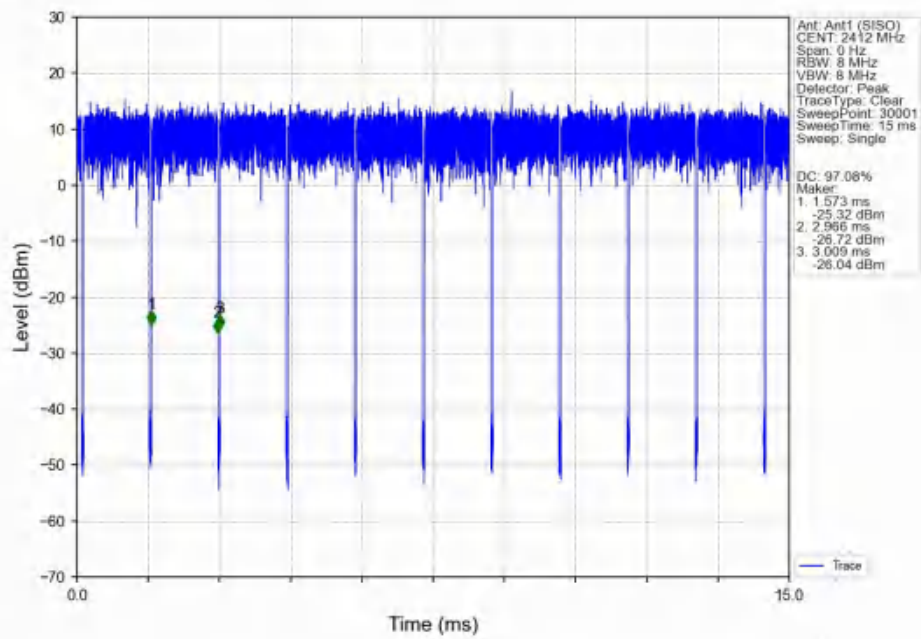
1.2.1 Ant1



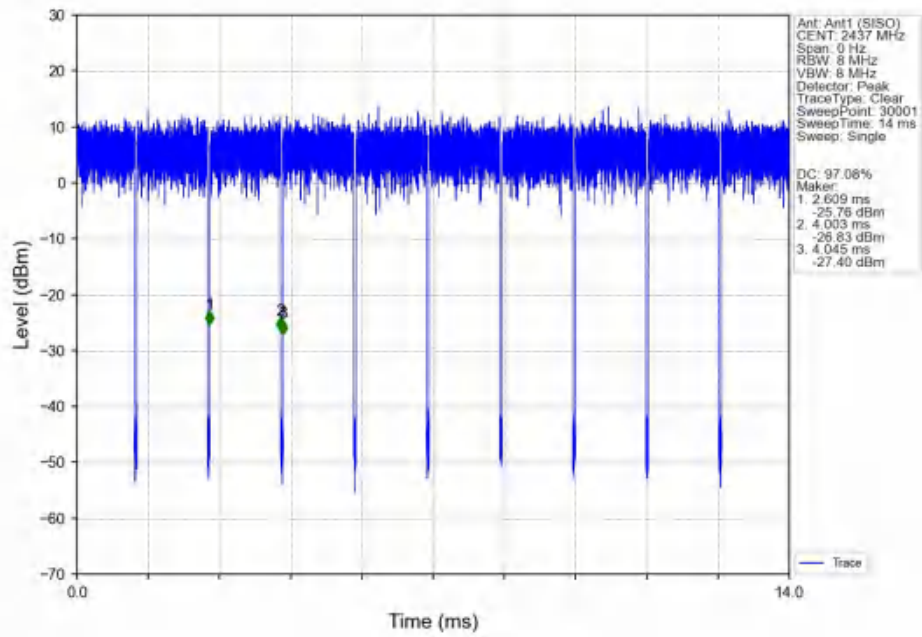
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



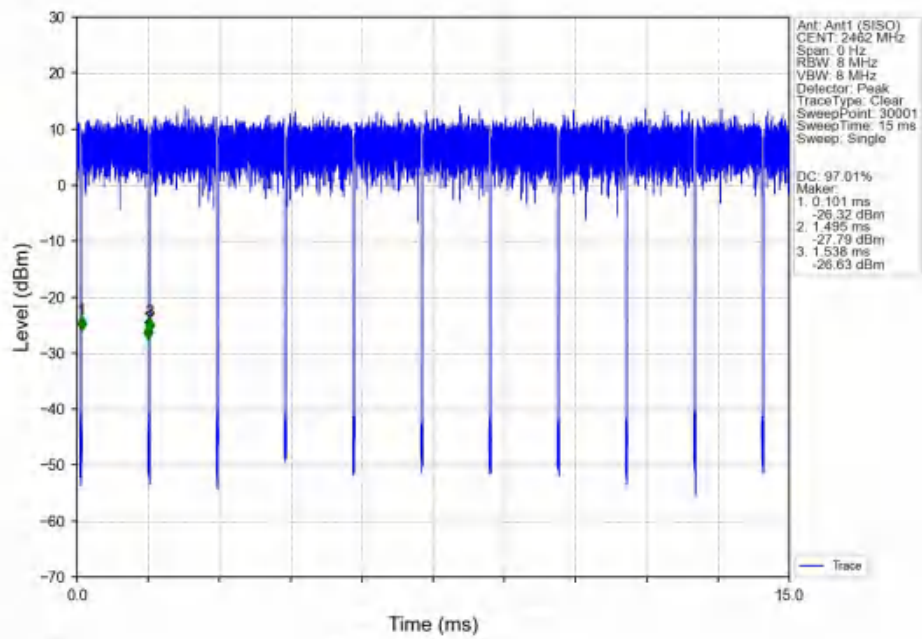
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



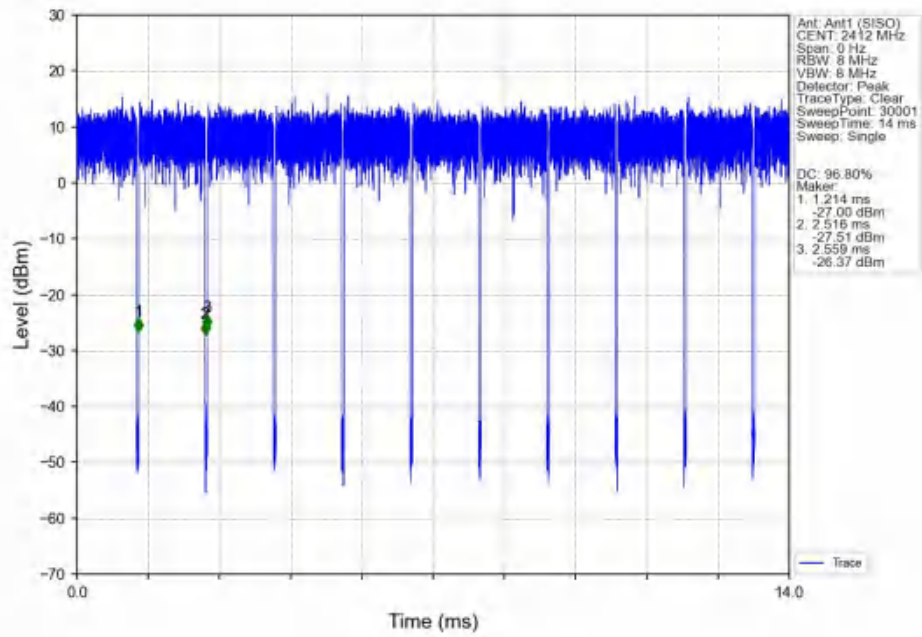
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



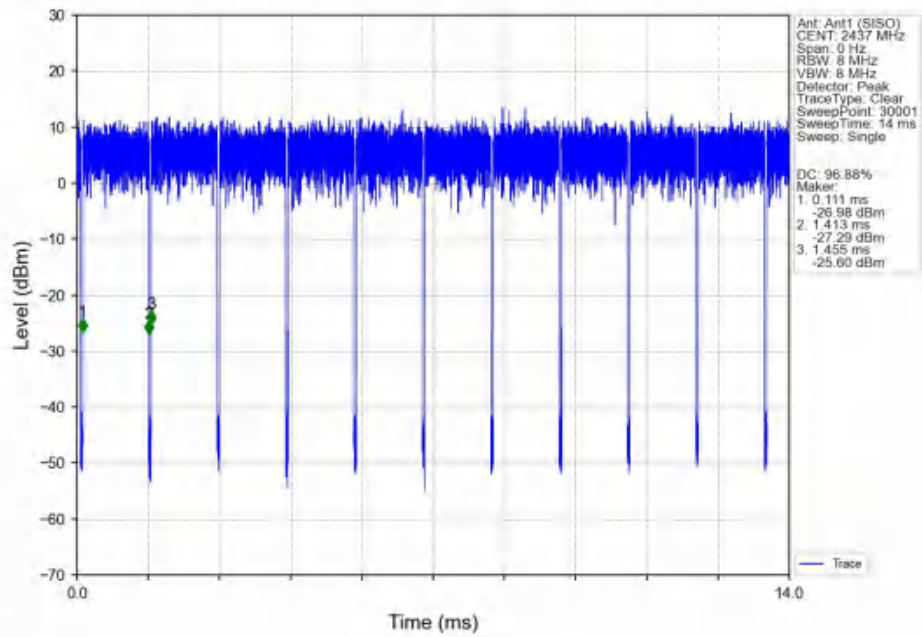
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



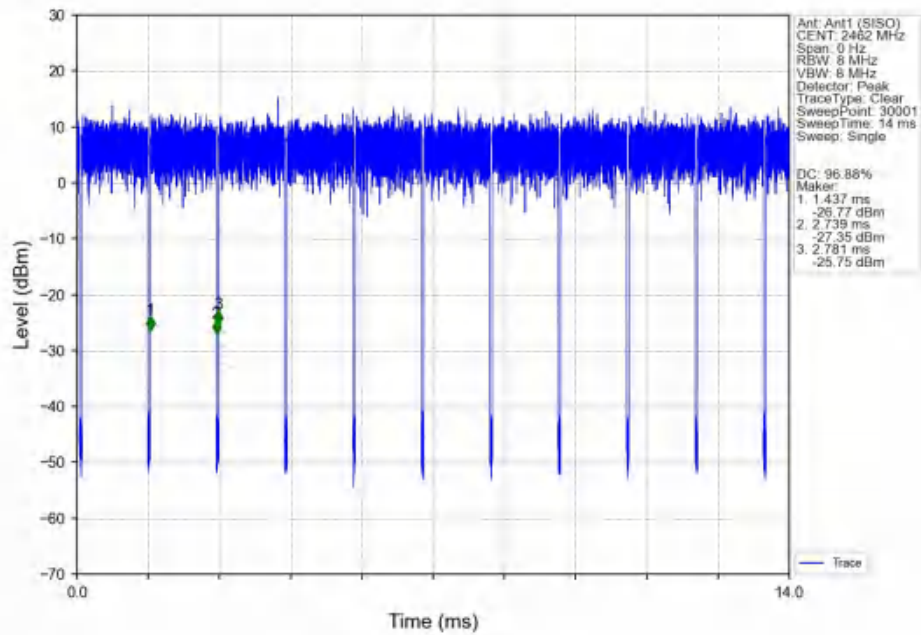
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



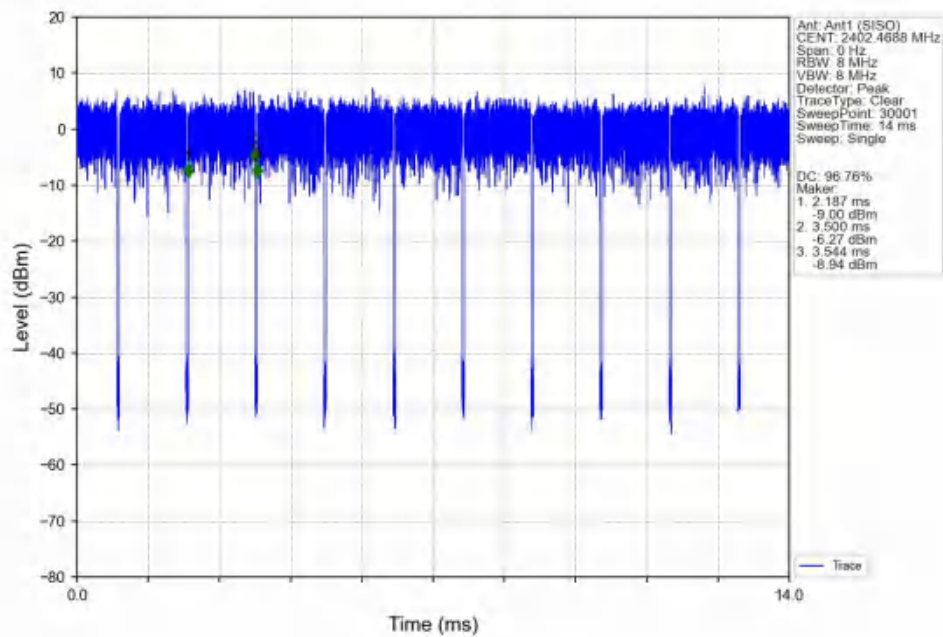
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



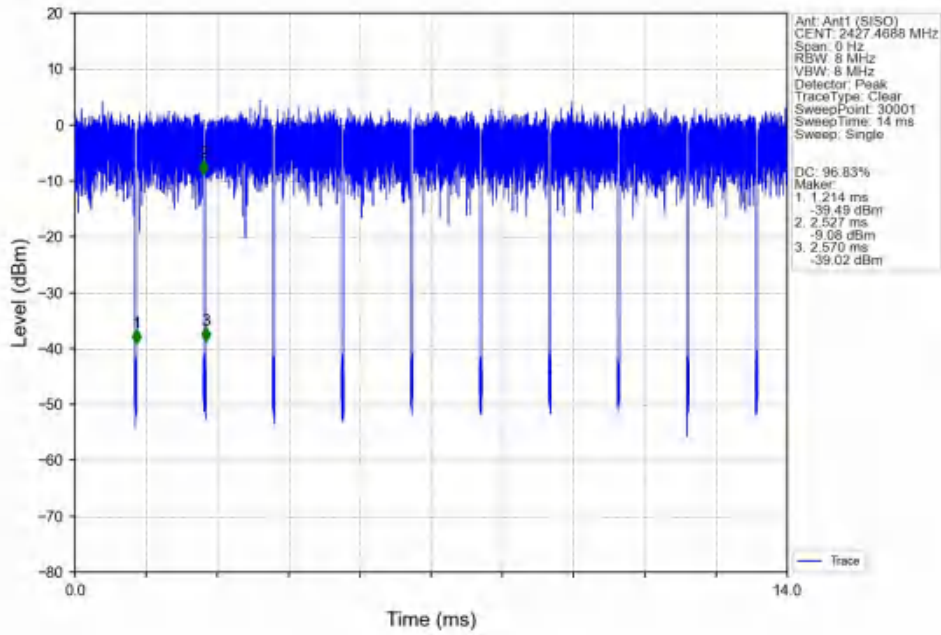
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



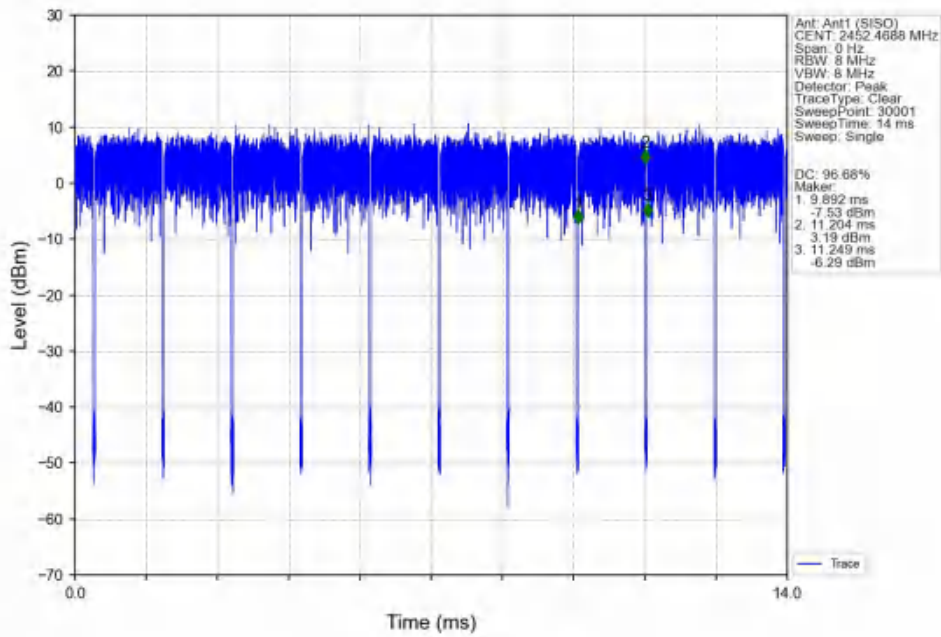
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



2. -6 dB Bandwidth and 99% Bandwidth Measurement

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	10.871	/	Pass
		2437	/	/	1	13.479	/	Pass
		2462	/	/	1	13.784	/	Pass
802.11g	SISO	2412	/	/	1	15.642	/	Pass
		2437	/	/	1	17.126	/	Pass
		2462	/	/	1	17.215	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	16.662	/	Pass
		2437	/	/	1	17.916	/	Pass
		2462	/	/	1	18.189	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	16.669	/	Pass
		2437	SU	/	1	17.897	/	Pass
		2462	SU	/	1	18.197	/	Pass

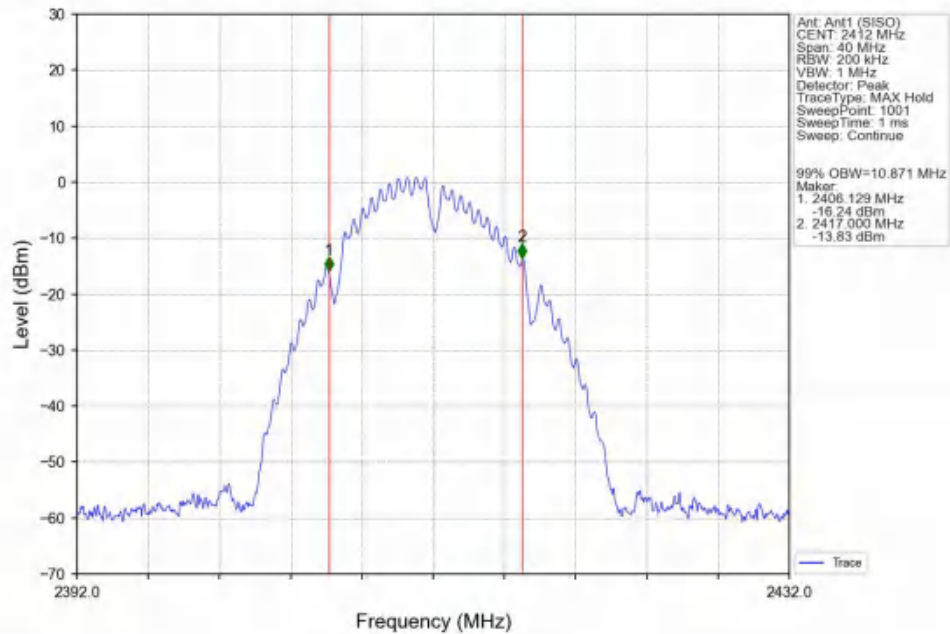
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	6.587	>=0.5	Pass
		2437	/	/	1	8.664	>=0.5	Pass
		2462	/	/	1	8.709	>=0.5	Pass
802.11g	SISO	2412	/	/	1	8.352	>=0.5	Pass
		2437	/	/	1	9.676	>=0.5	Pass
		2462	/	/	1	16.655	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	8.829	>=0.5	Pass
		2437	/	/	1	10.320	>=0.5	Pass
		2462	/	/	1	17.930	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	8.055	>=0.5	Pass
		2437	SU	/	1	10.330	>=0.5	Pass
		2462	SU	/	1	17.936	>=0.5	Pass

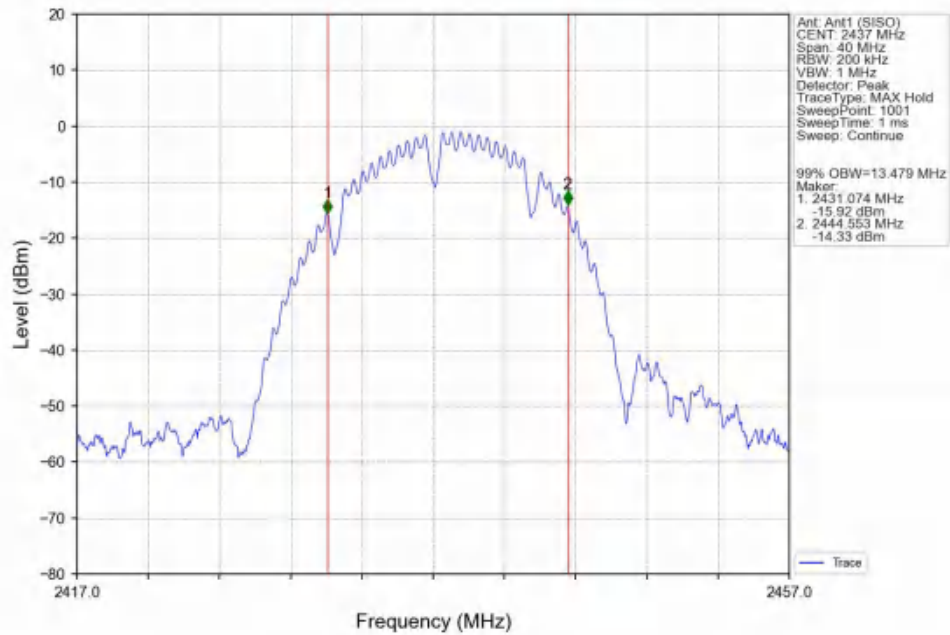
2.2 Test Graph

2.2.1 OBW

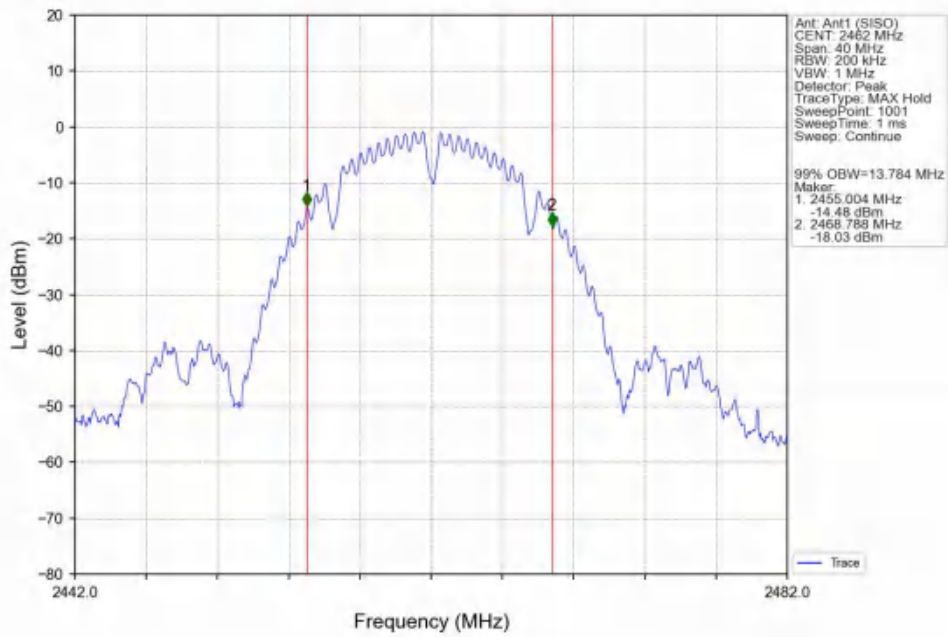
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



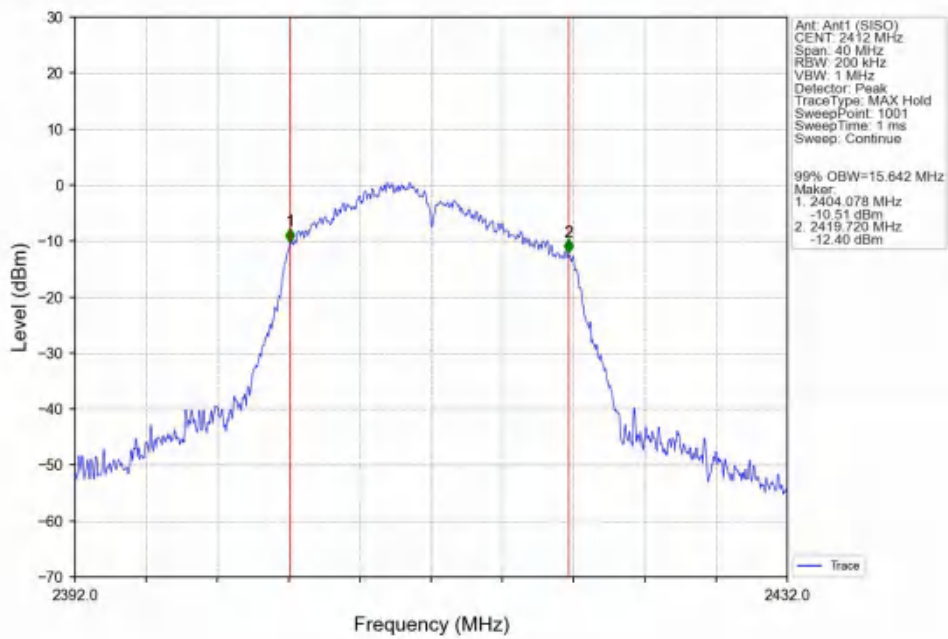
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



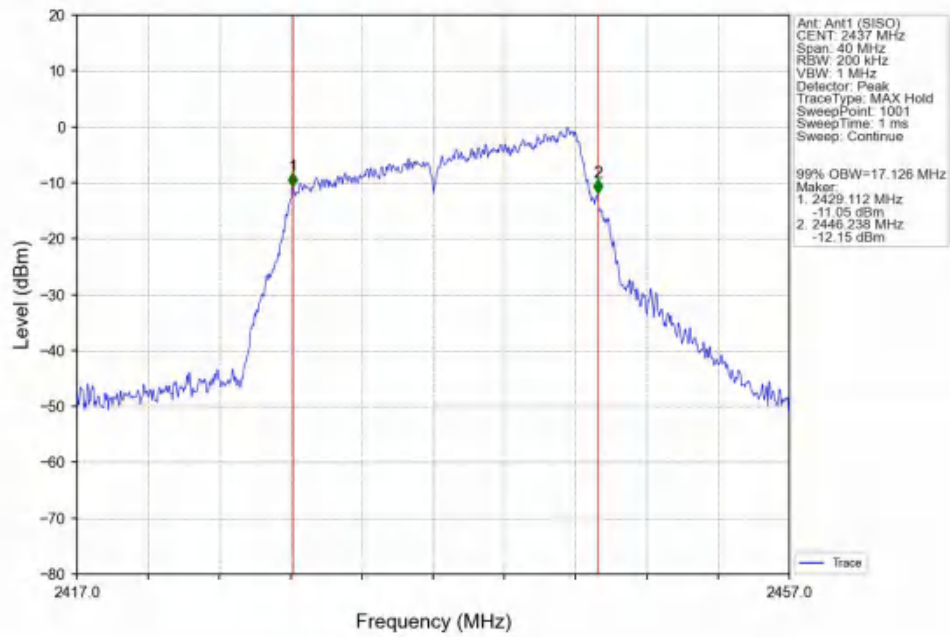
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



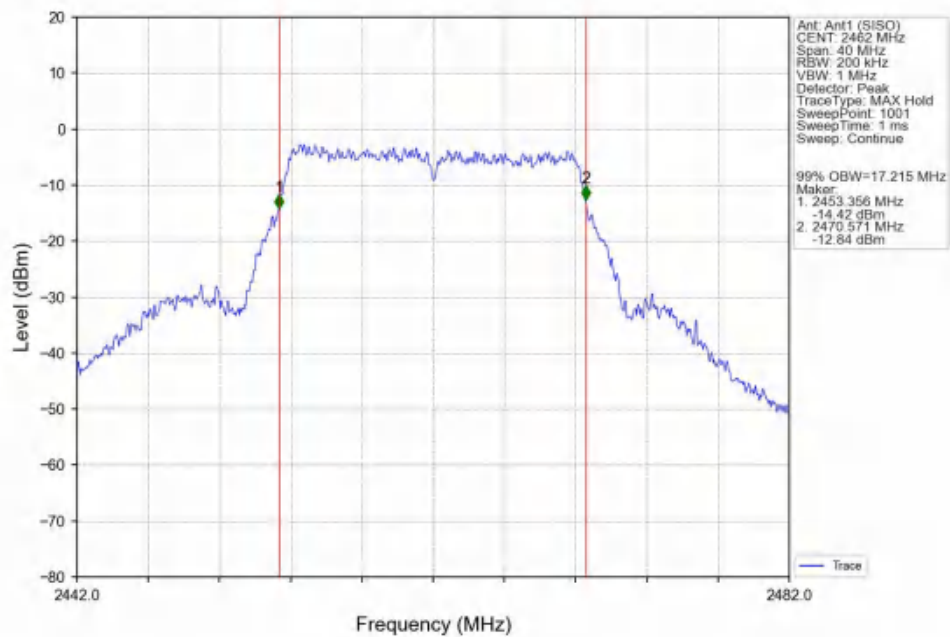
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



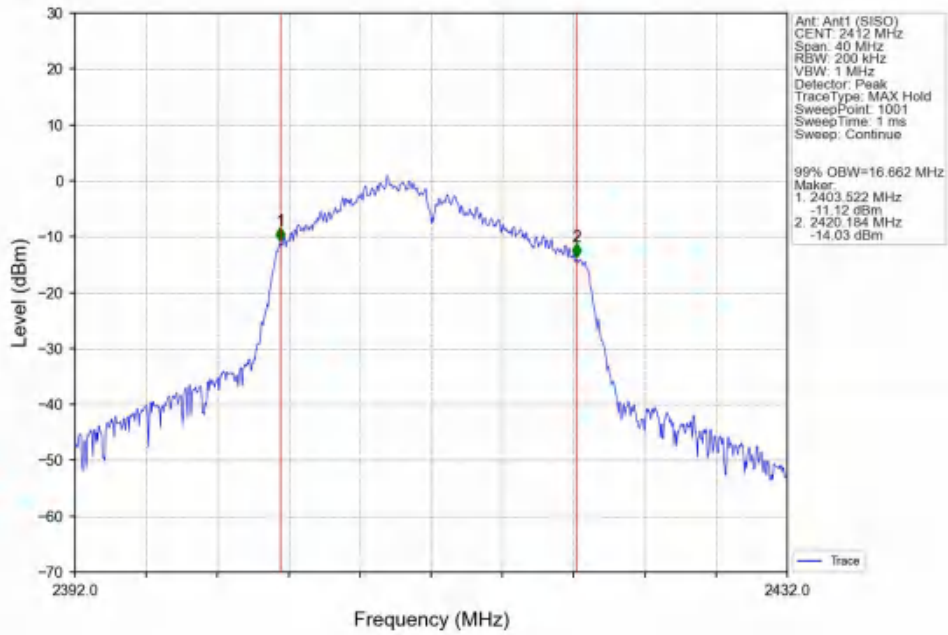
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



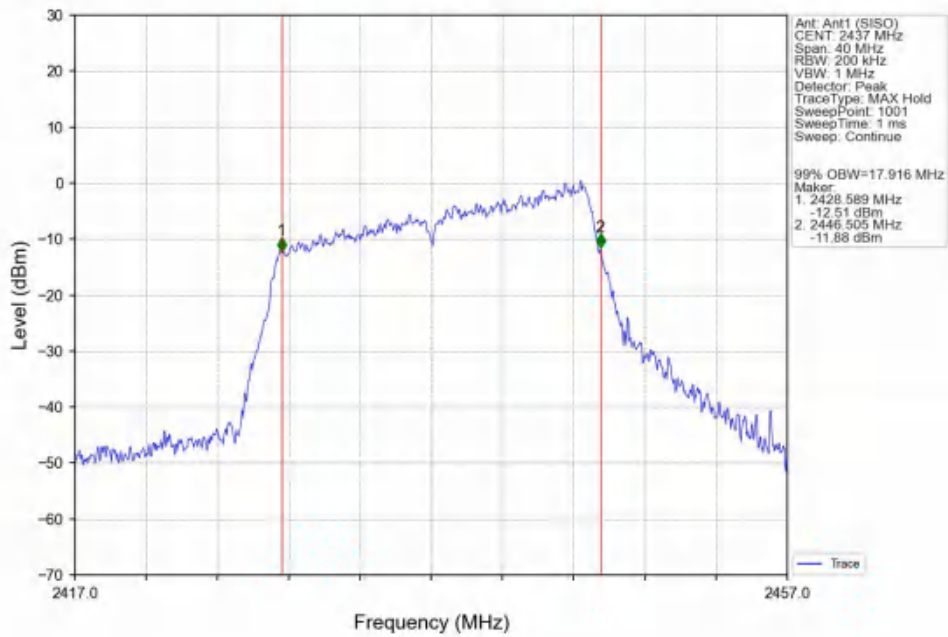
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



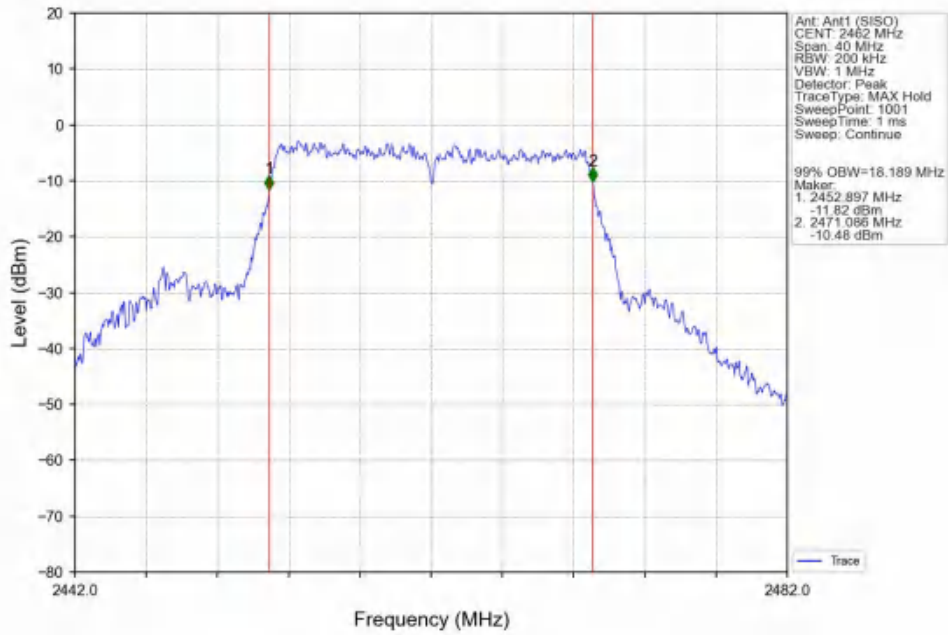
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



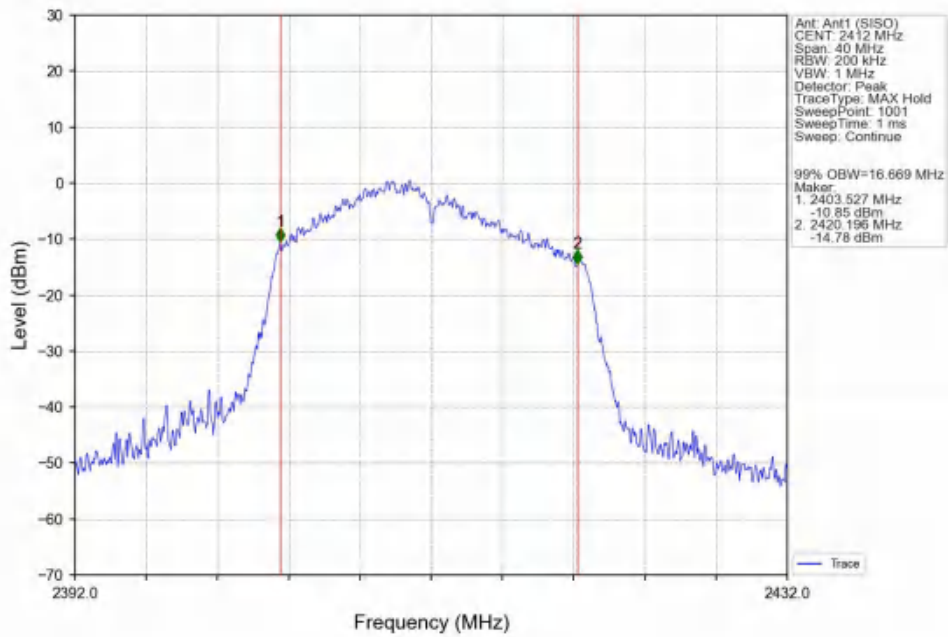
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



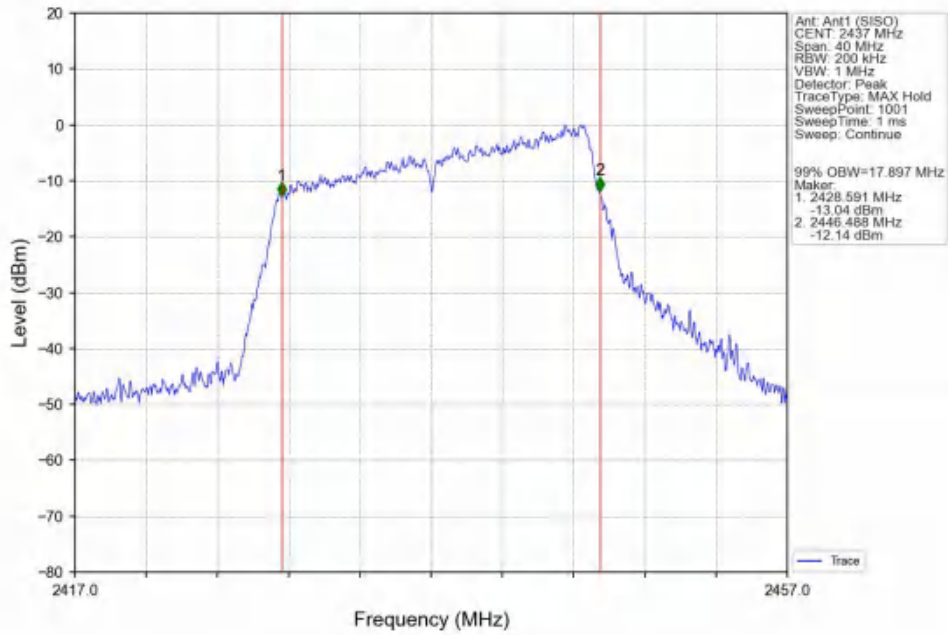
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



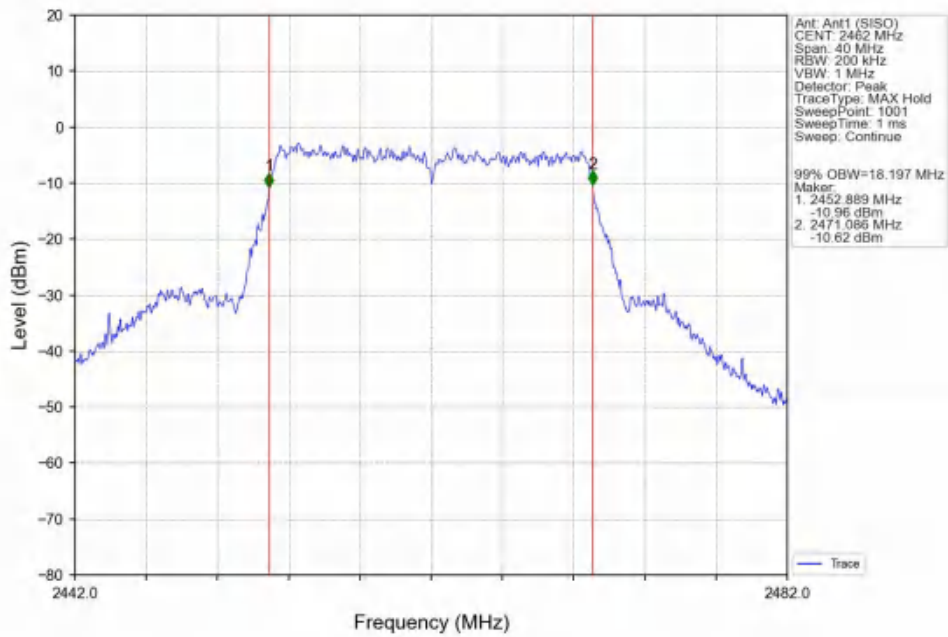
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



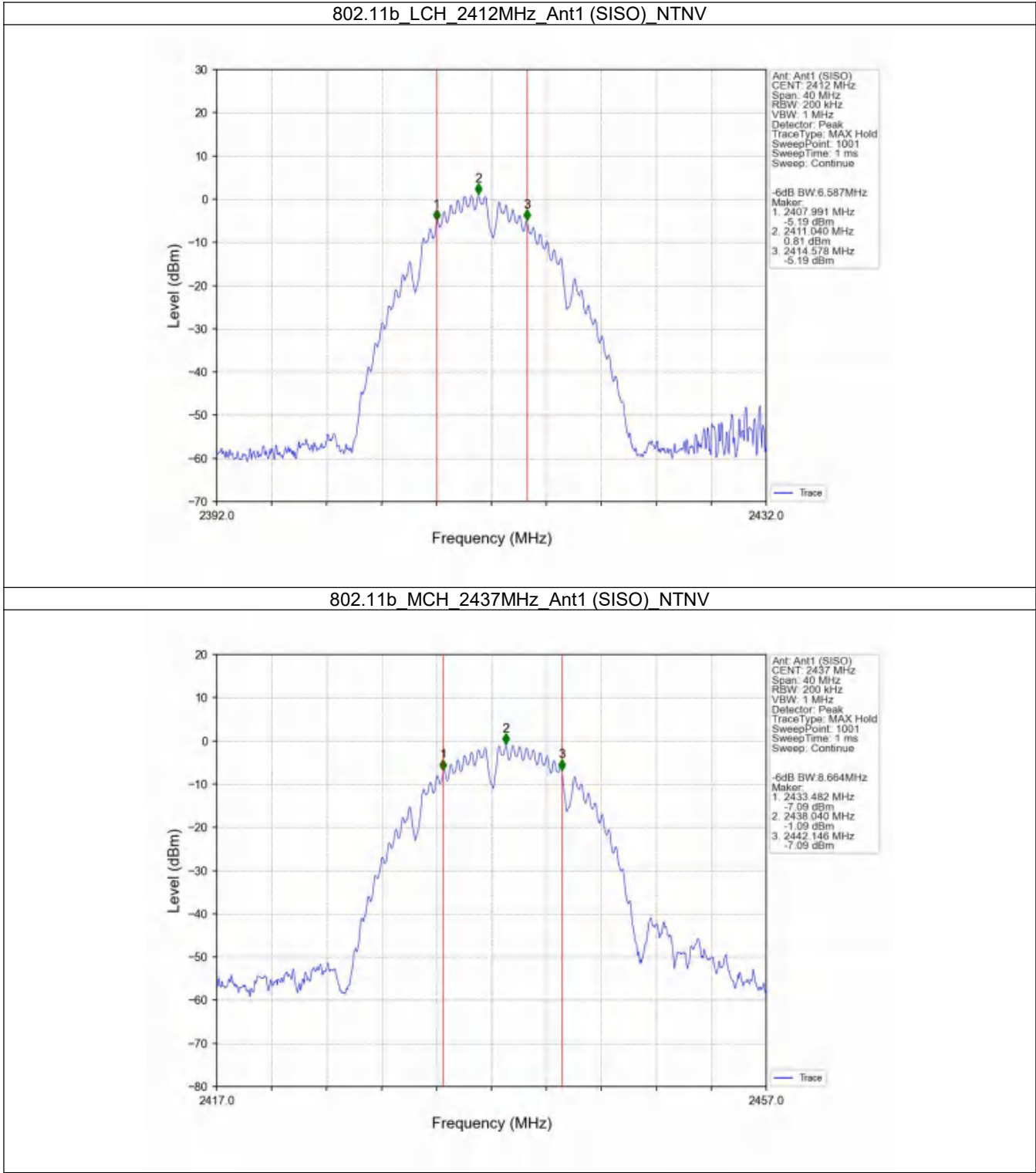
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



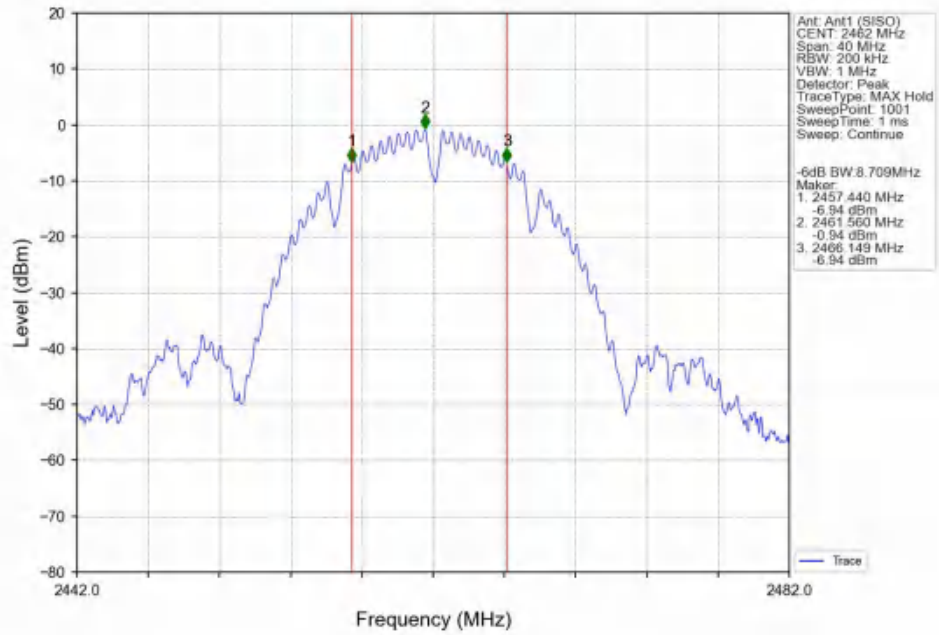
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



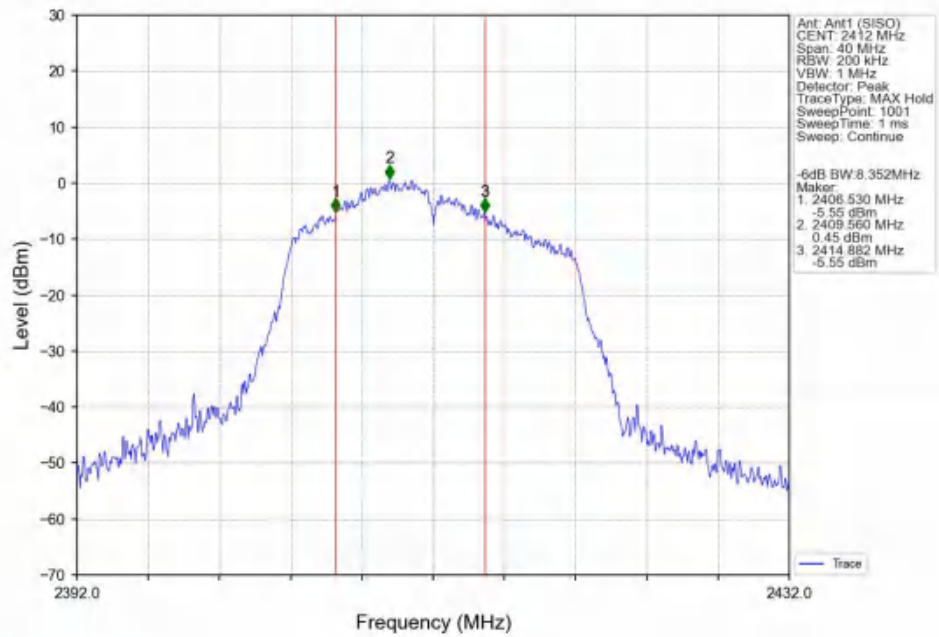
2.2.2 6dB BW



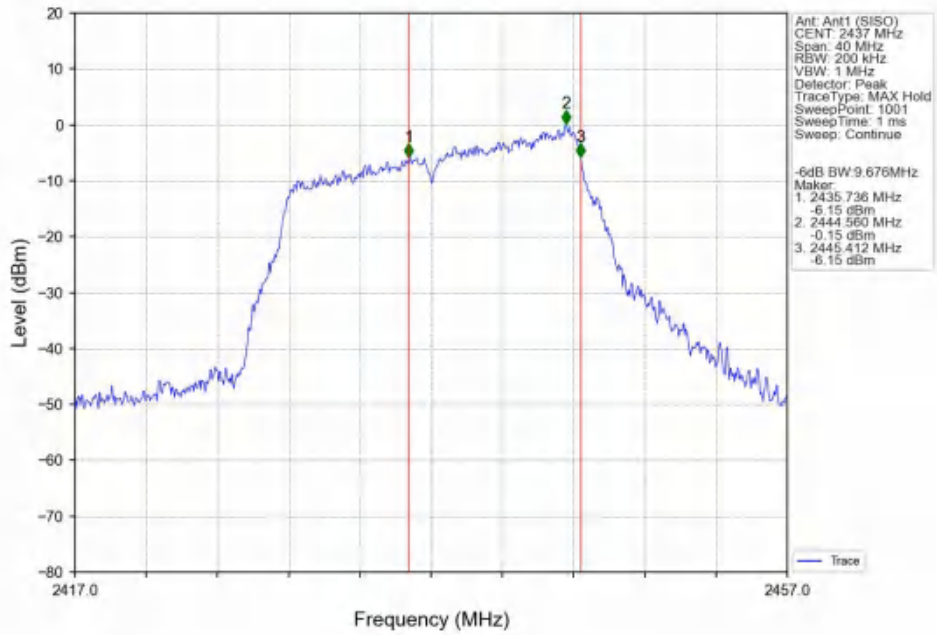
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



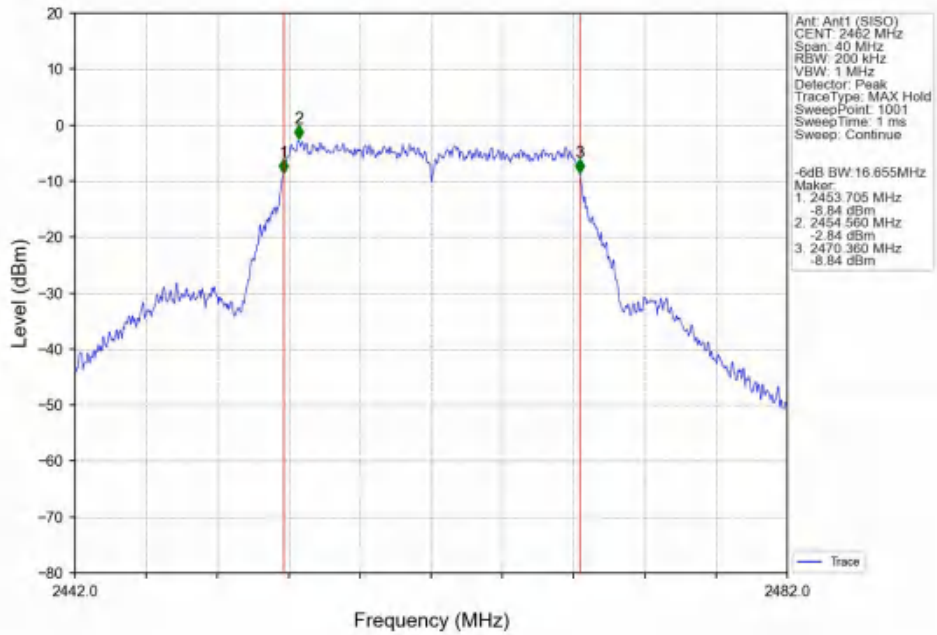
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



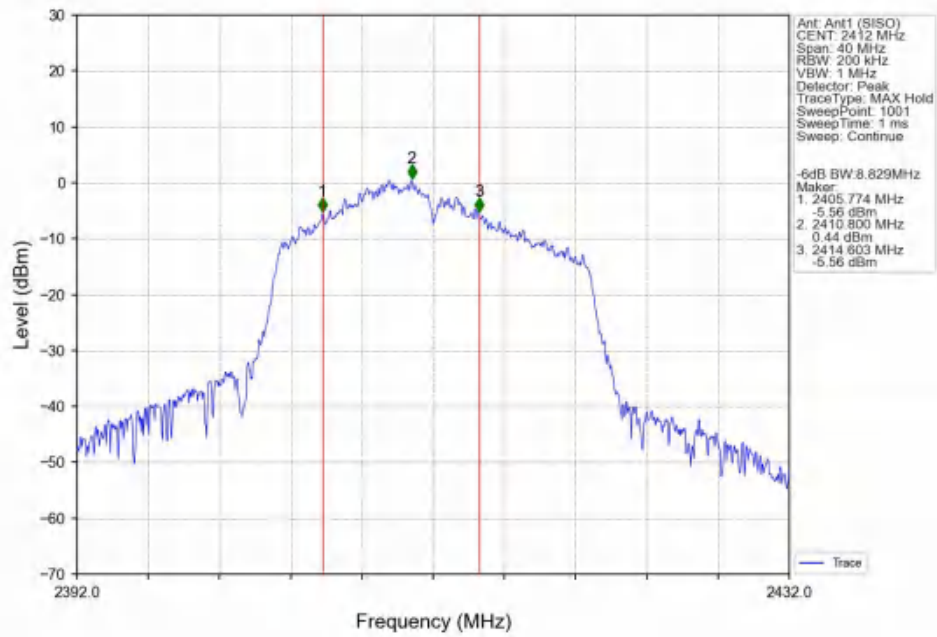
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



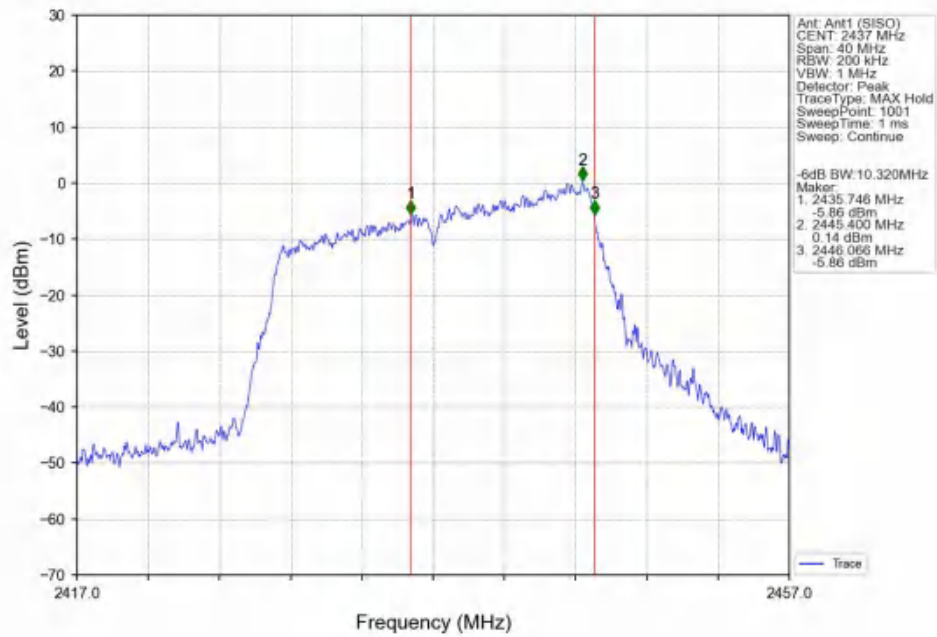
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



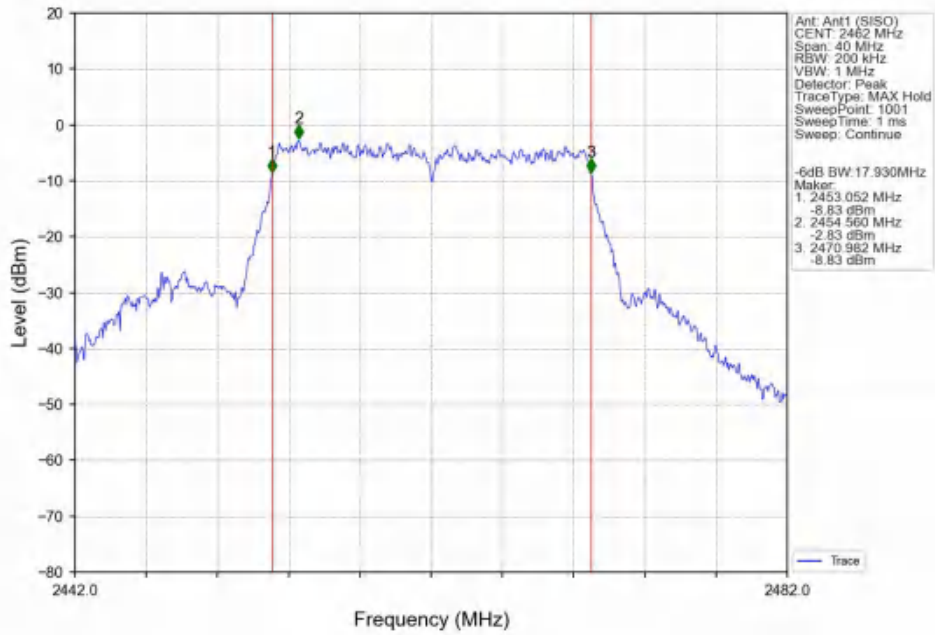
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



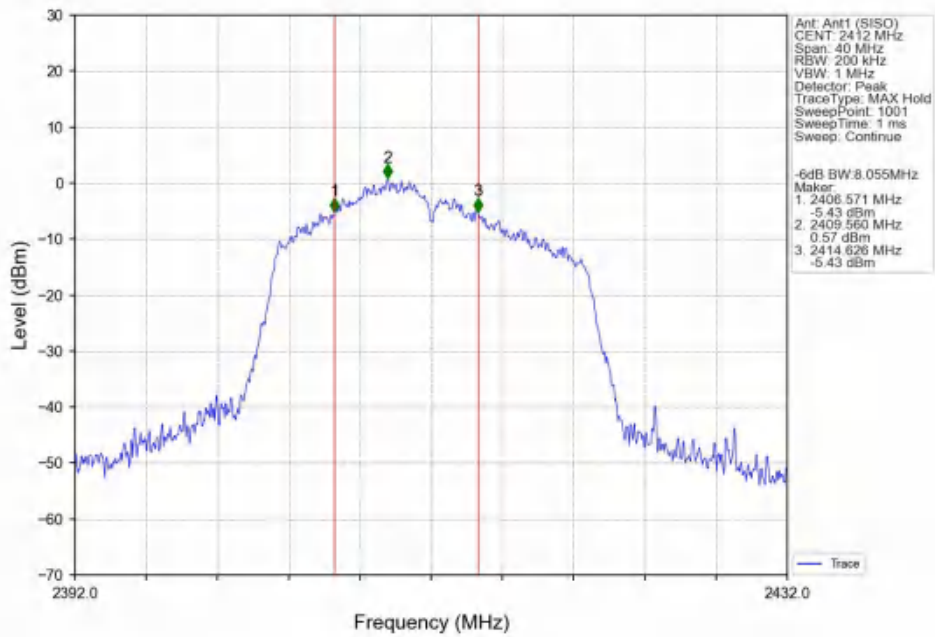
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



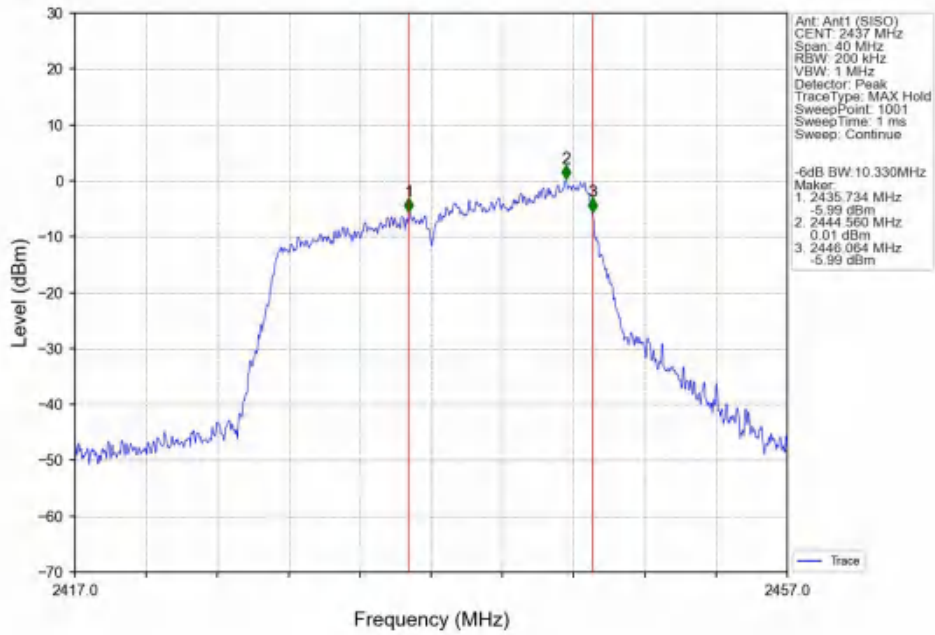
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



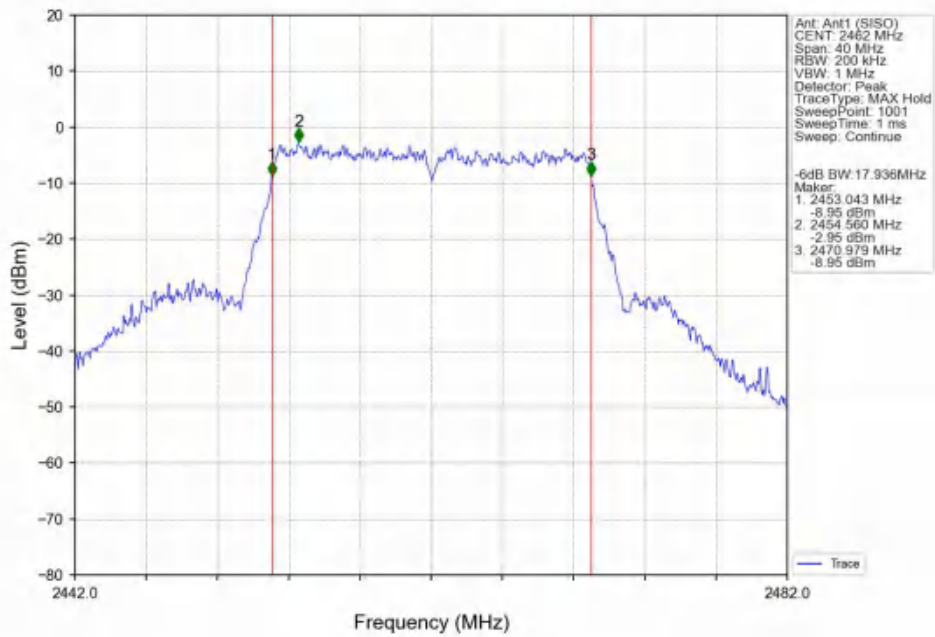
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



3. Maximum Output Power

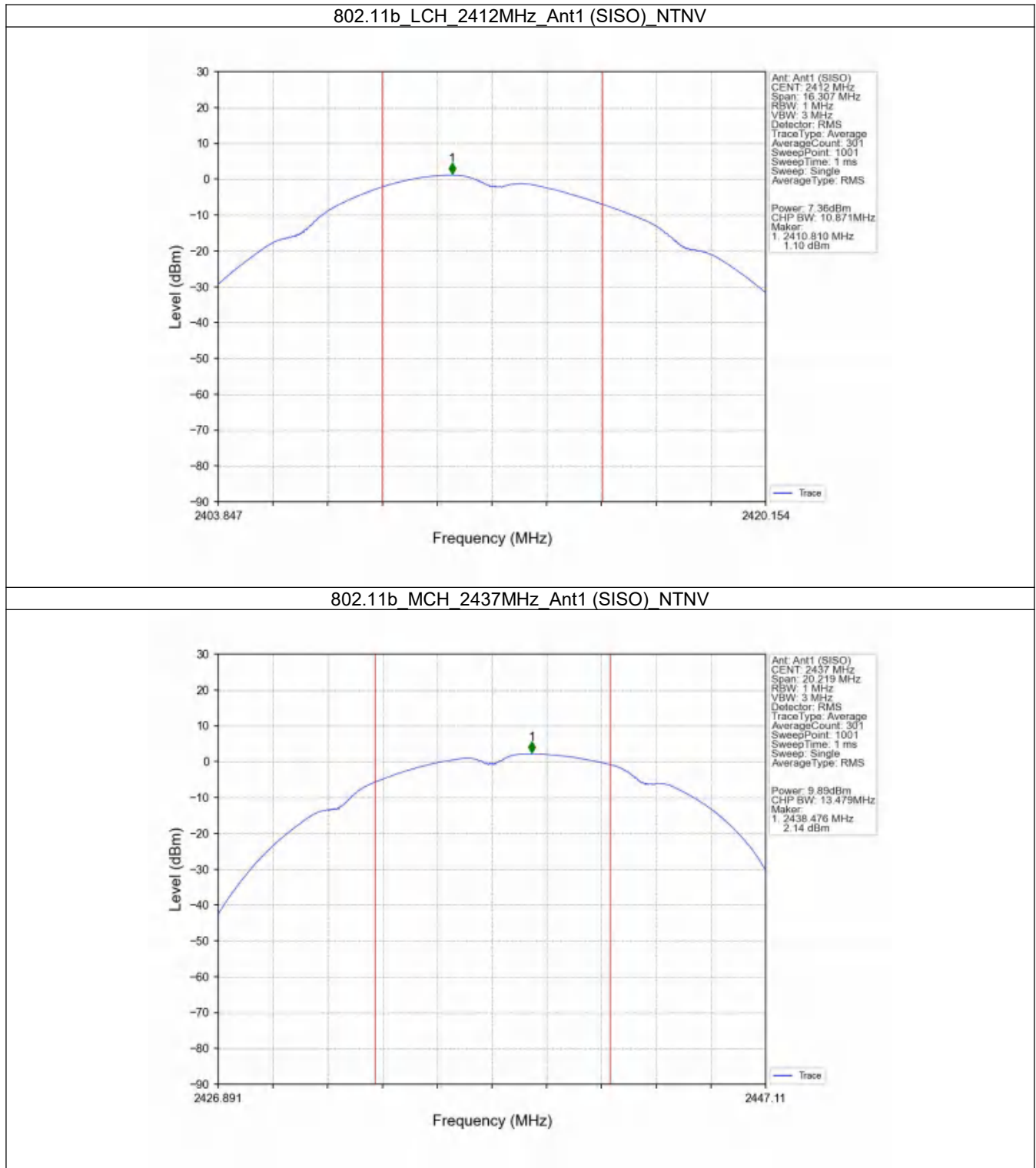
3.1 Test Result

3.1.1 Power

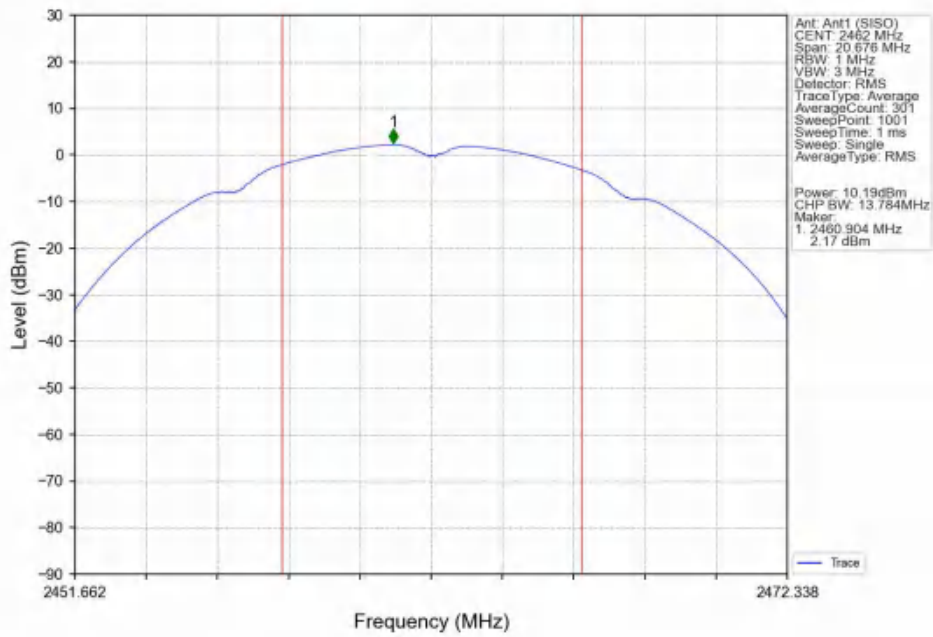
Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)	Test Result
b	2412	7.36	0.00	7.36	30	PASS
b	2437	9.89	0.00	9.89	30	PASS
b	2462	10.19	0.00	10.19	30	PASS
g	2412	10.07	0.13	10.20	30	PASS
g	2437	9.58	0.13	9.71	30	PASS
g	2462	9.88	0.13	10.01	30	PASS
n20	2412	11.8	0.14	11.94	30	PASS
n20	2437	10.49	0.14	10.63	30	PASS
n20	2462	11.51	0.14	11.65	30	PASS
ax20	2412	11.27	0.14	11.41	30	PASS
ax20	2437	11.03	0.14	11.17	30	PASS
ax20	2462	11.51	0.15	11.66	30	PASS
Note1: Antenna Gain: Ant1: 1.20dBi;						

3.2 Test Graph

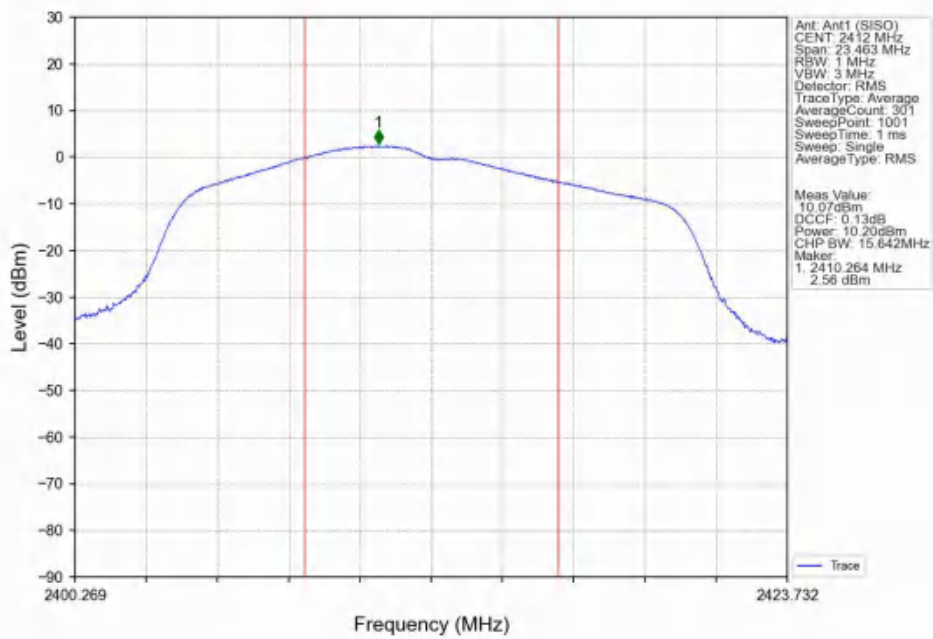
3.2.1 Power



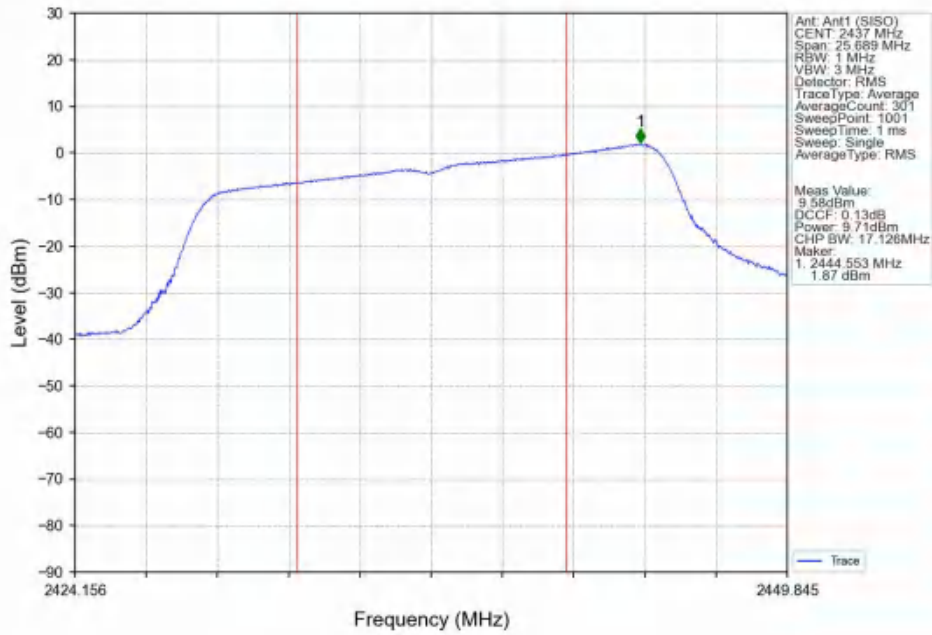
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



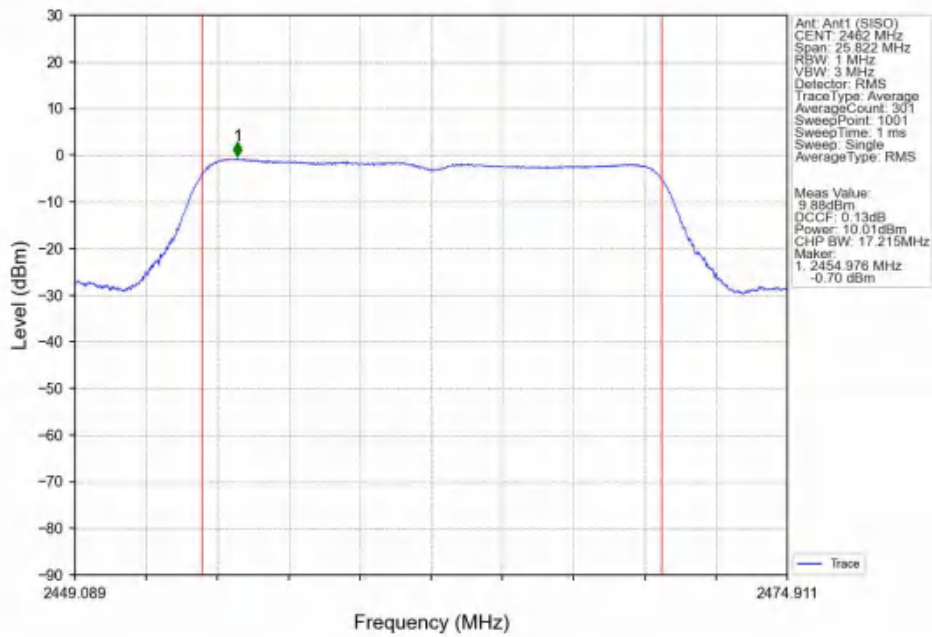
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



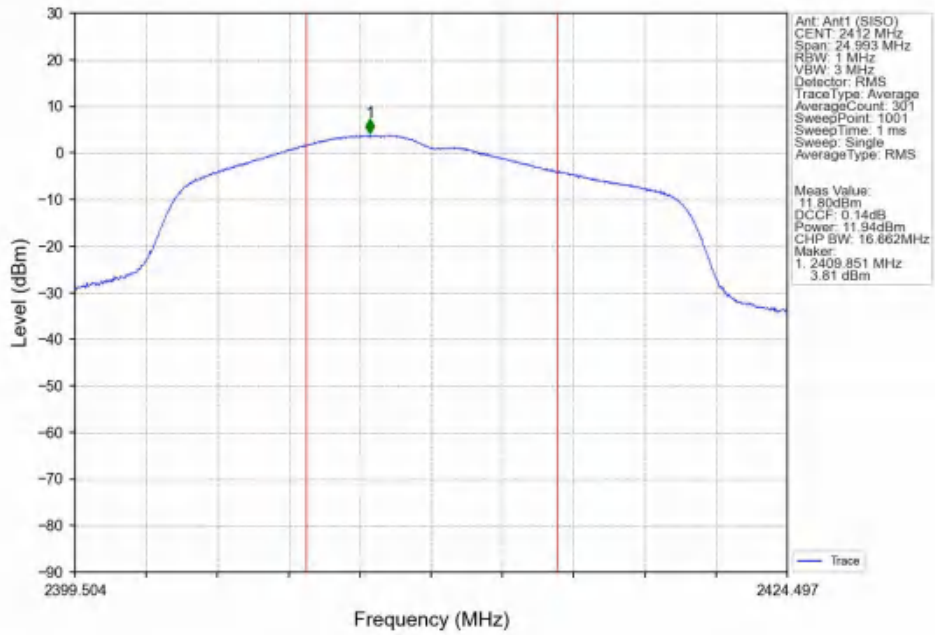
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



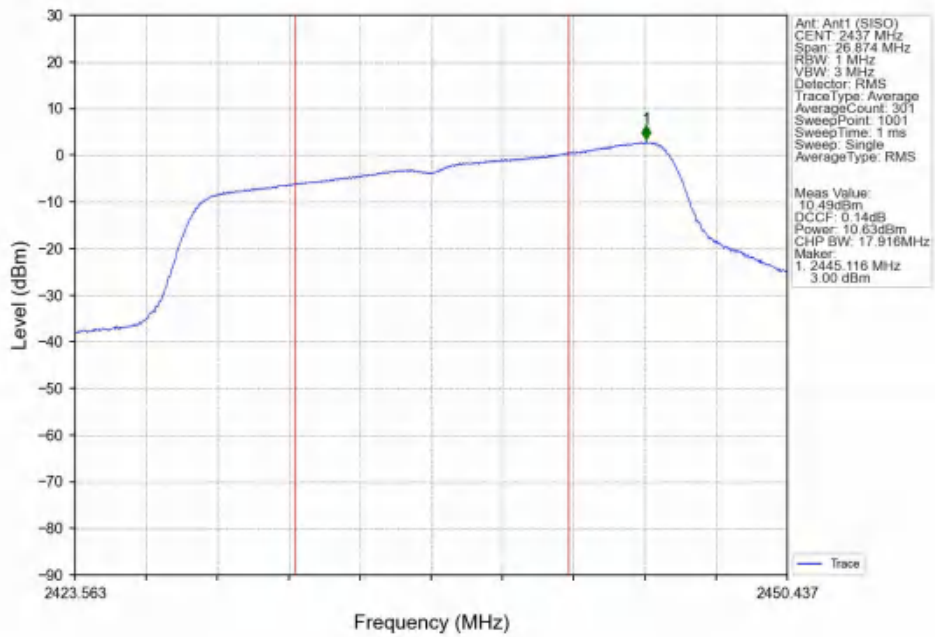
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



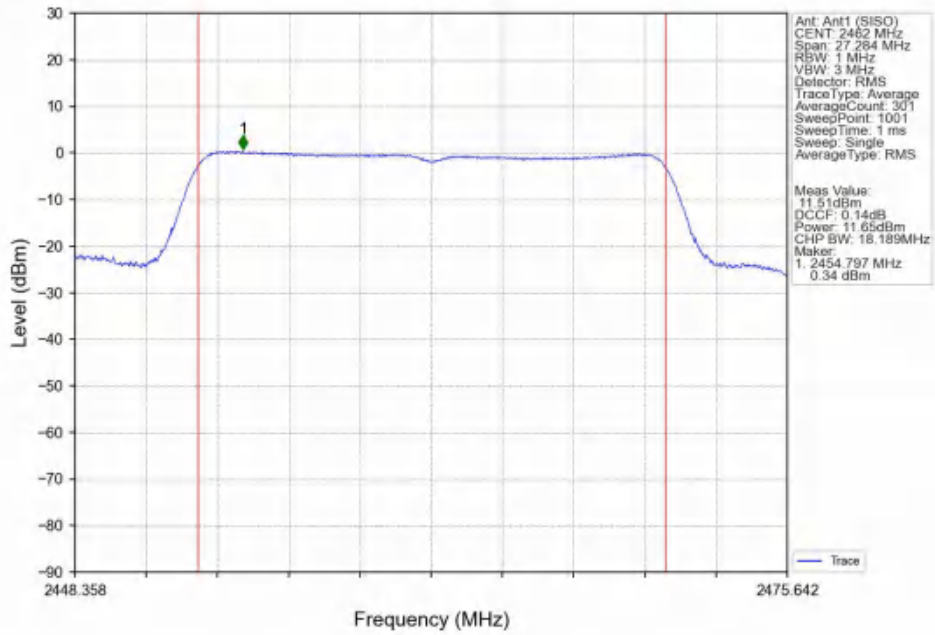
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



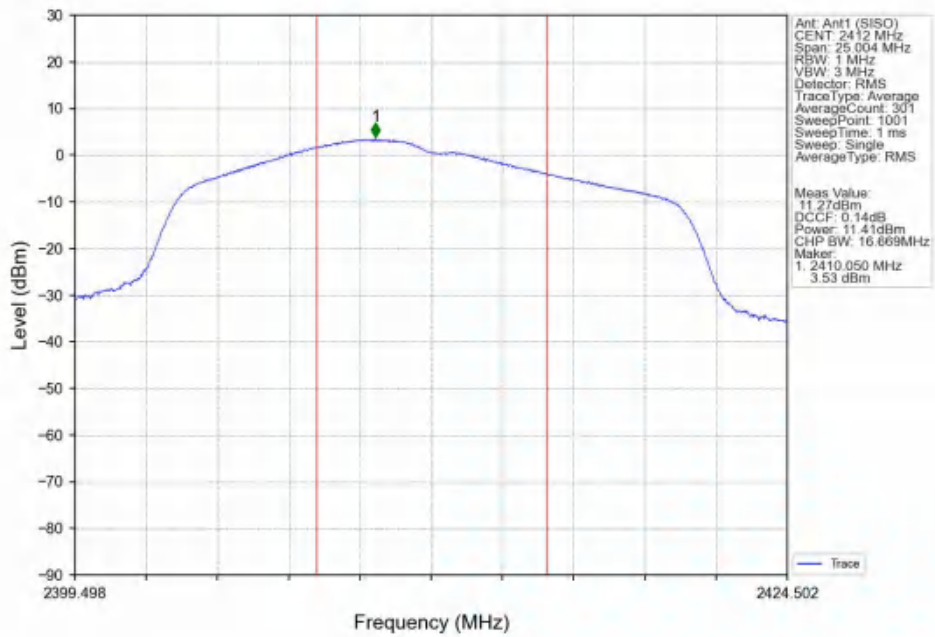
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



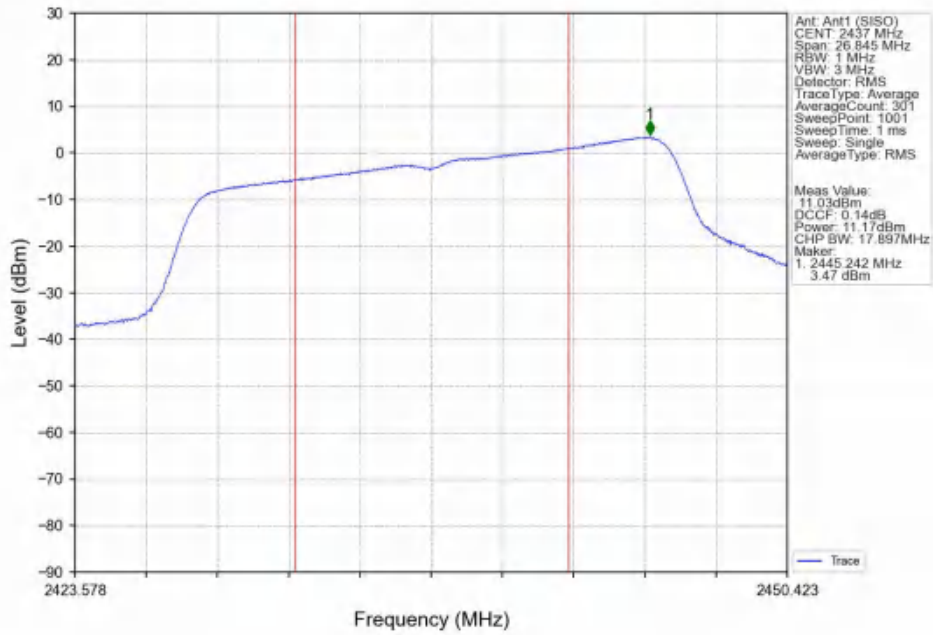
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



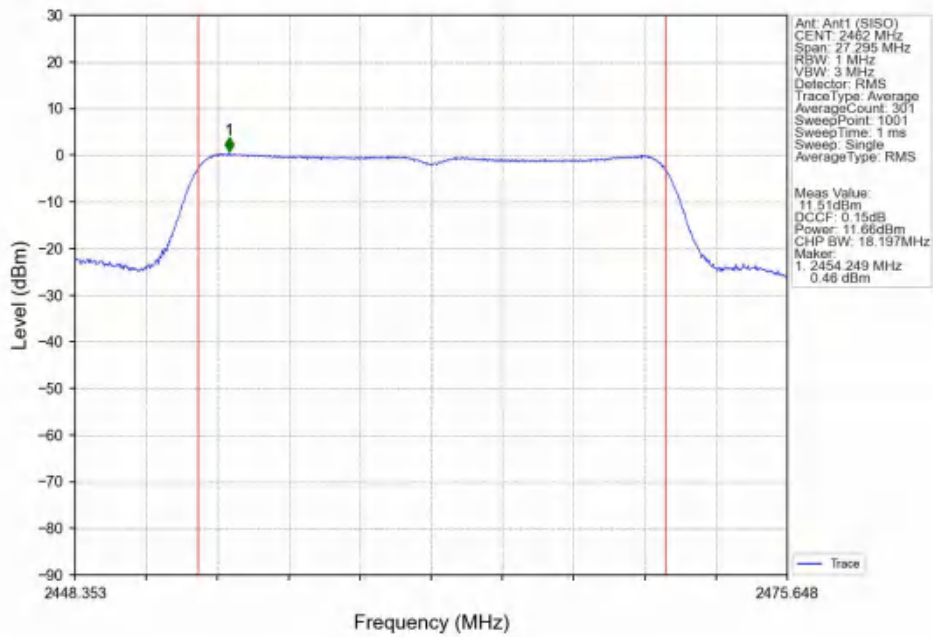
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



4. Power Spectral Density

4.1 Test Result

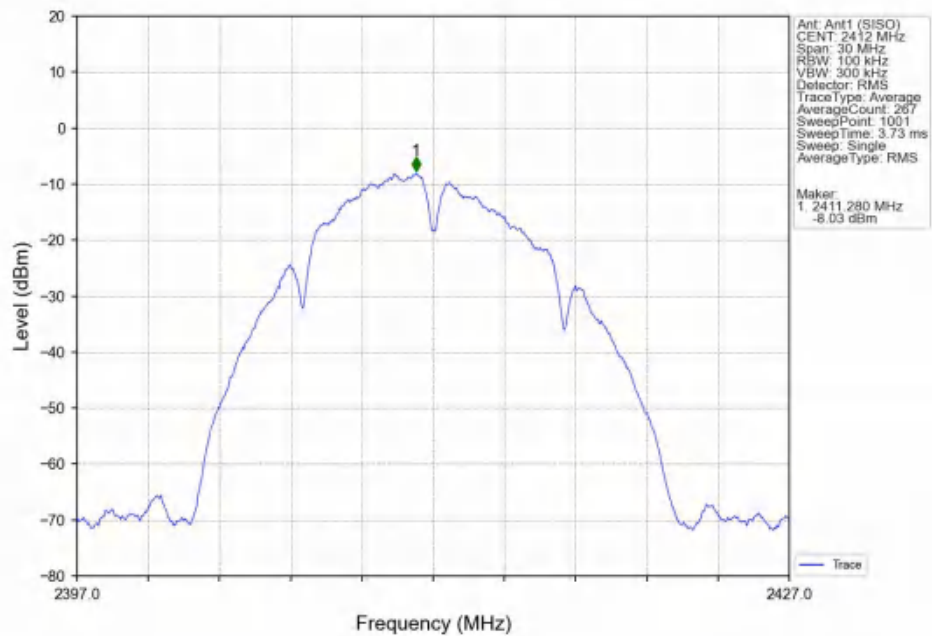
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD		Verdict
			ANT1(dBm/100KHz)	Limit(dBm/3KHz)	
802.11b	SISO	2412	-8.03	<=8	Pass
		2437	-6.91	<=8	Pass
		2462	-6.81	<=8	Pass
802.11g	SISO	2412	-6.34	<=8	Pass
		2437	-6.25	<=8	Pass
		2462	-9.66	<=8	Pass
802.11n (HT20)	SISO	2412	-4.99	<=8	Pass
		2437	-5.36	<=8	Pass
		2462	-8.37	<=8	Pass
802.11n (HEX20)	SISO	2412	-5.37	<=8	Pass
		2437	-5.13	<=8	Pass
		2462	-8.25	<=8	Pass
Note1: Antenna Gain: Ant1: 1.2dBi;					

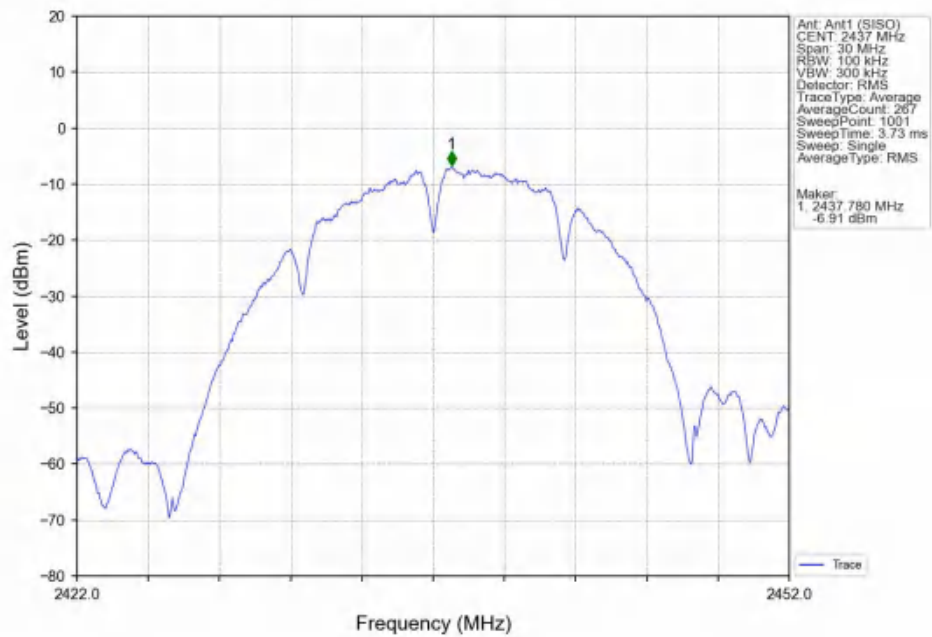
4.2 Test Graph

4.2.1 PSD

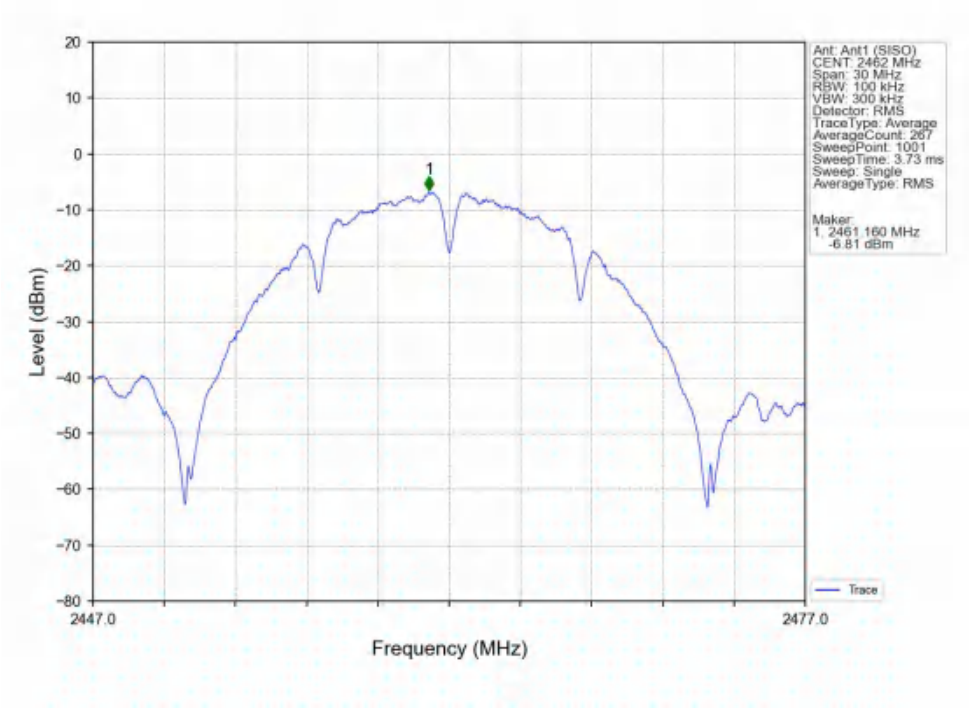
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



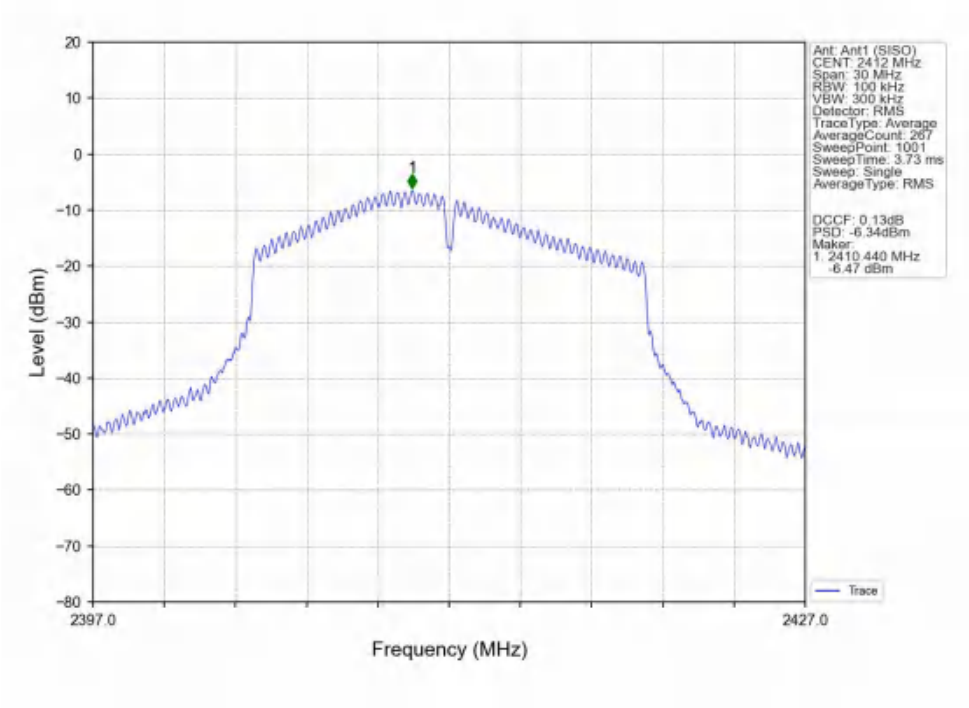
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



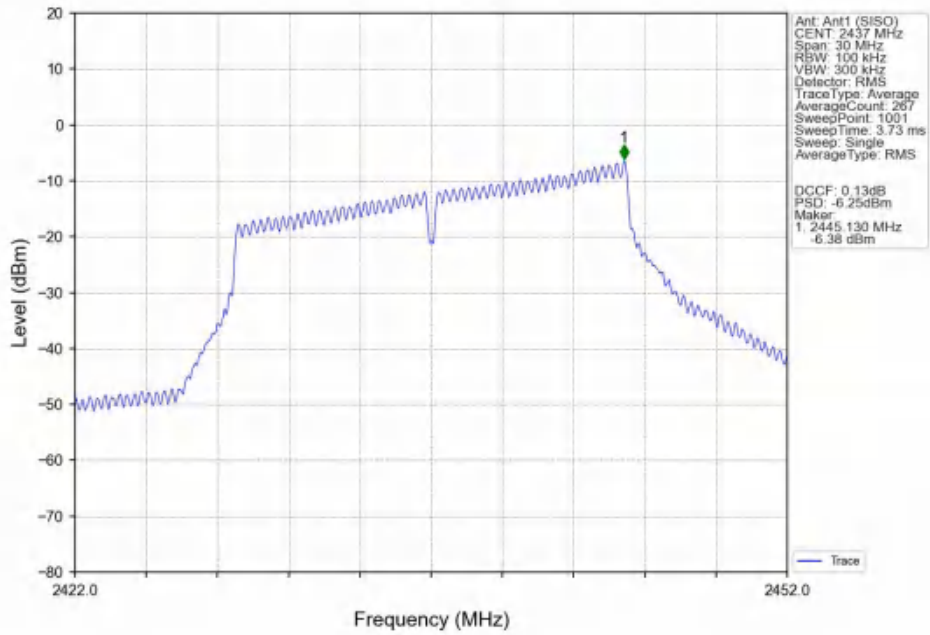
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



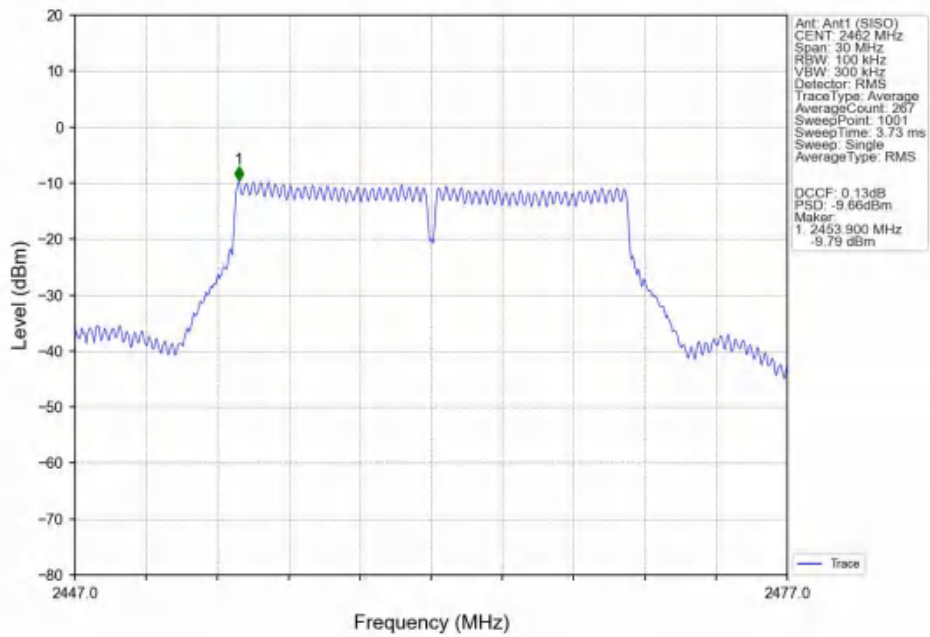
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



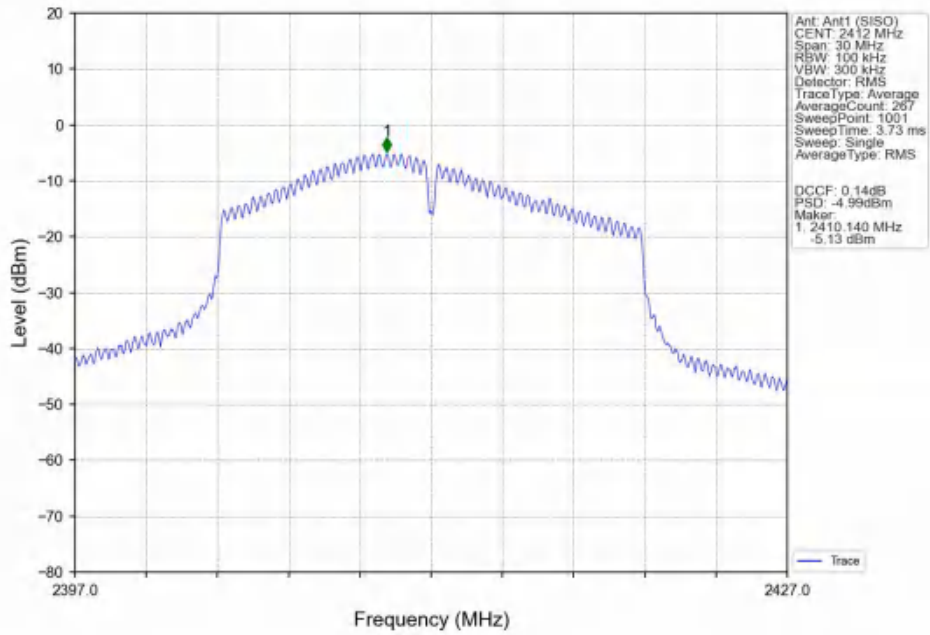
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



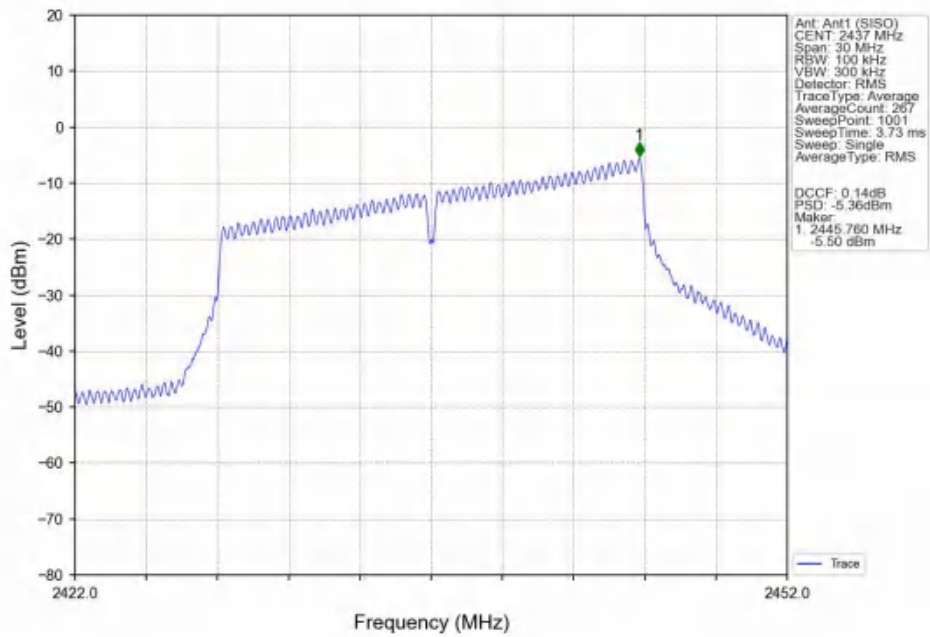
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



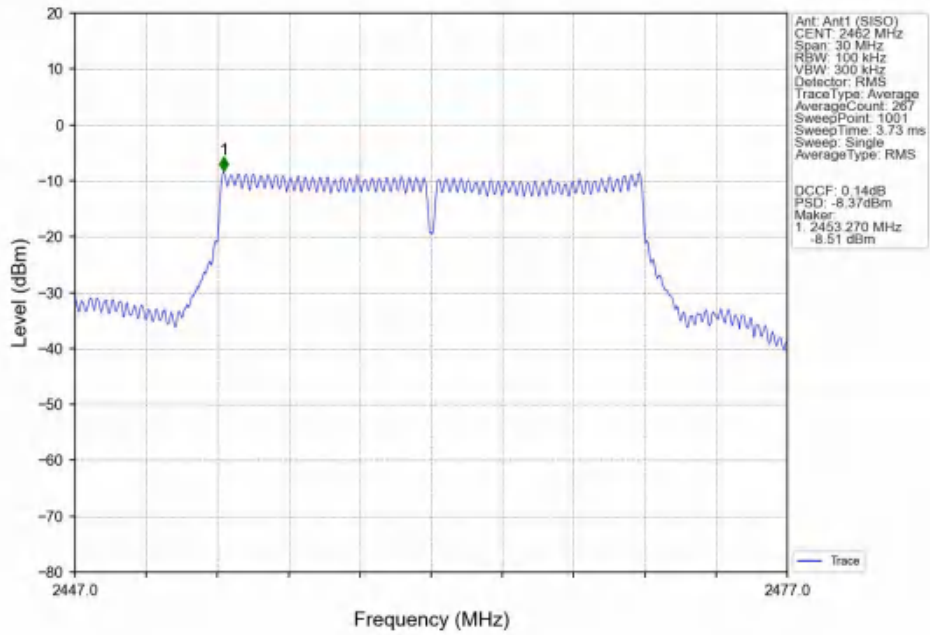
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



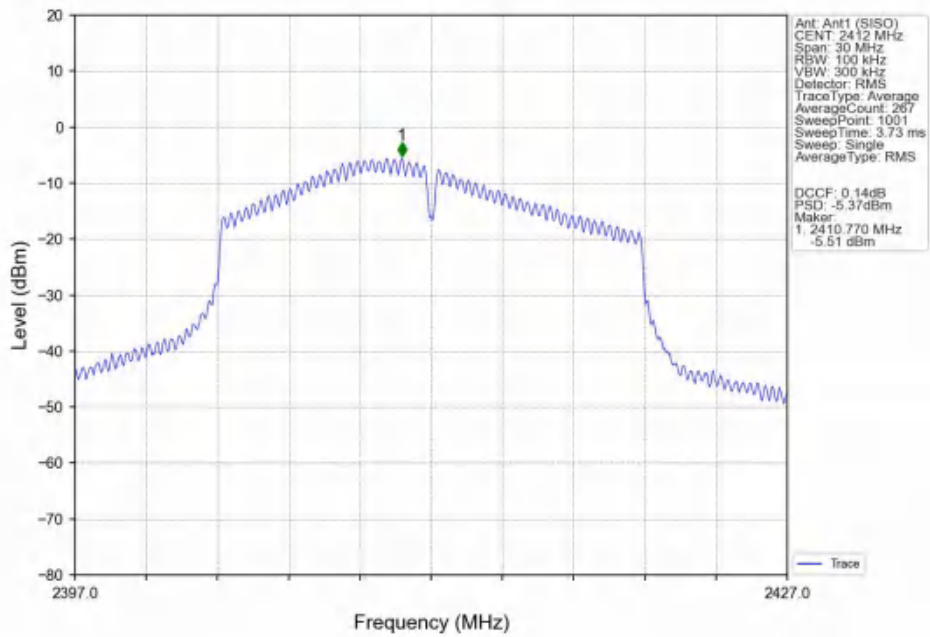
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



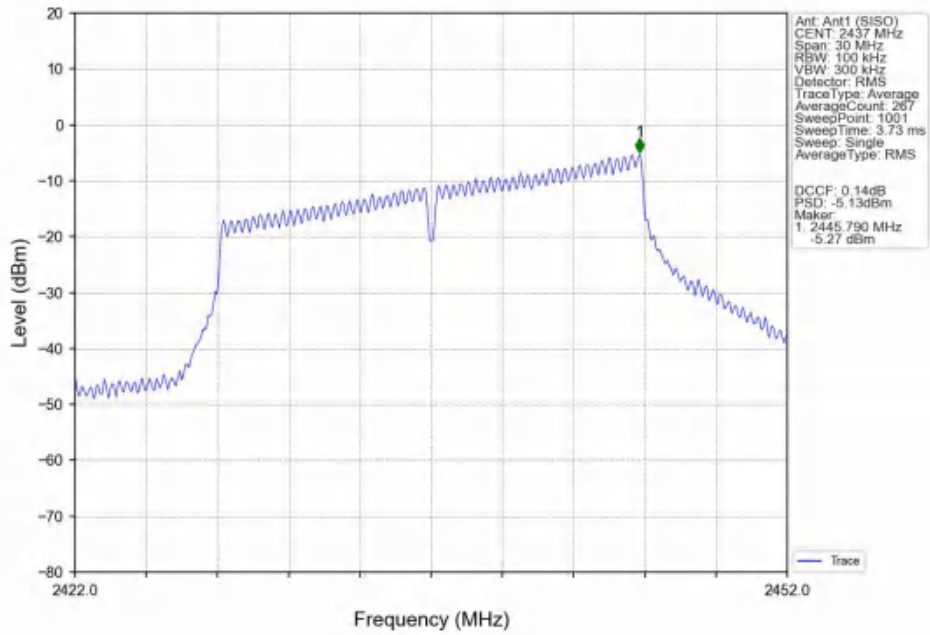
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



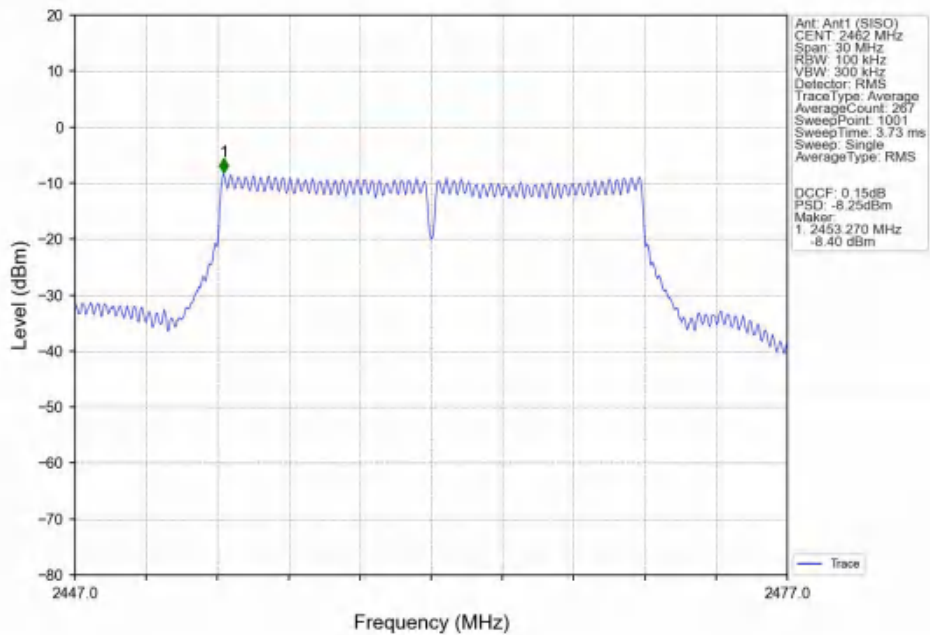
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	0.68
		2437	1	-1.26
		2462	1	-1.21
802.11g	SISO	2412	1	-0.83
		2437	1	-2.51
		2462	1	-4.03
802.11n (HT20)	SISO	2412	1	-0.76
		2437	1	-0.97
		2462	1	-3.73
802.11ax (HEX40)	SISO	2412	1	-0.80
		2437	1	-0.92
		2462	1	-4.06

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

4.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	0.68	-29.32	Pass
		2437	1	-1.26	-31.26	Pass
		2462	1	-1.21	-31.21	Pass
802.11g	SISO	2412	1	-0.83	-30.83	Pass
		2437	1	-2.51	-32.51	Pass
		2462	1	-4.03	-34.03	Pass
802.11n (HT20)	SISO	2412	1	-0.76	-30.76	Pass
		2437	1	-0.97	-30.97	Pass
		2462	1	-3.73	-33.73	Pass
802.11ax (HEX20)	SISO	2412	1	-0.80	-30.80	Pass
		2437	1	-0.92	-30.92	Pass
		2462	1	-4.06	-34.06	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

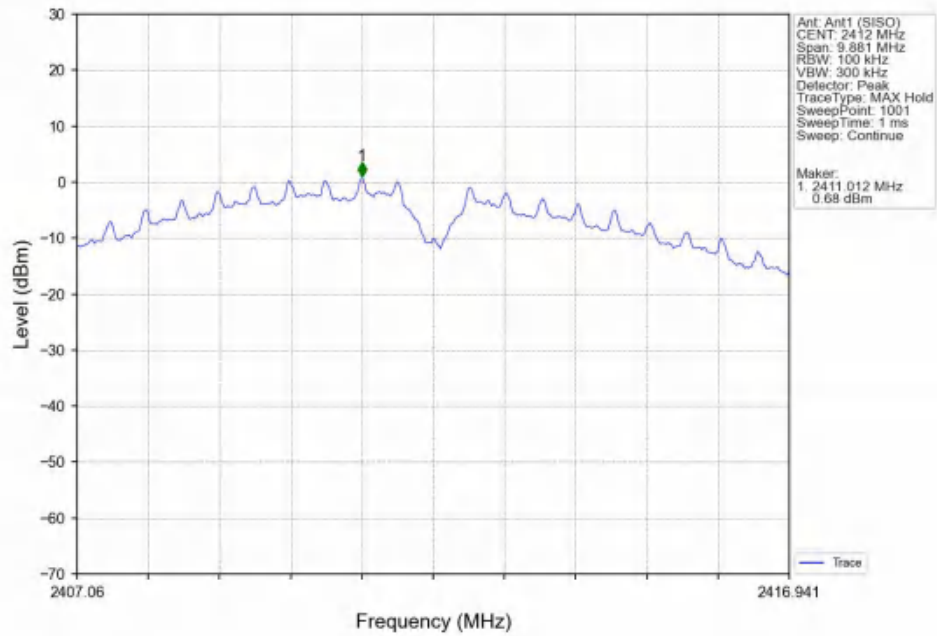
5.1.3.Band Edge Measurement

Mode	Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
802.11b	2412	-57.41	-29.32	Pass
	2462	-56.93	-31.21	Pass
802.11g	2412	-42.22	-30.83	Pass
	2462	-50.37	-34.03	Pass
802.11n (HT20)	2412	-40.83	-30.76	Pass
	2462	-47.87	-33.73	Pass
802.11ax (HEX20)	2412	-43.10	-30.80	Pass
	2462	-49.82	-34.06	Pass

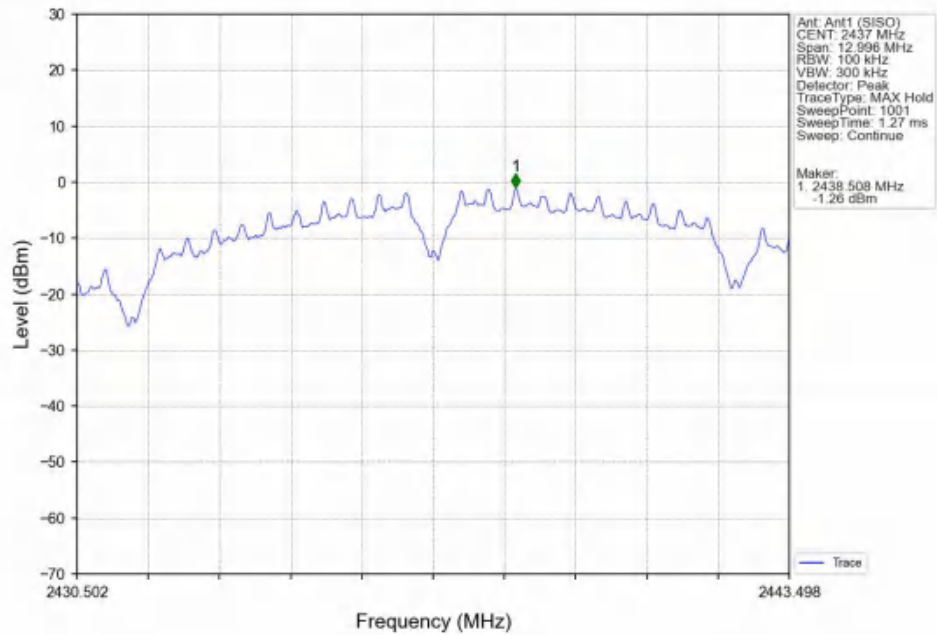
5.2 Test Graph

5.2.1 Ref

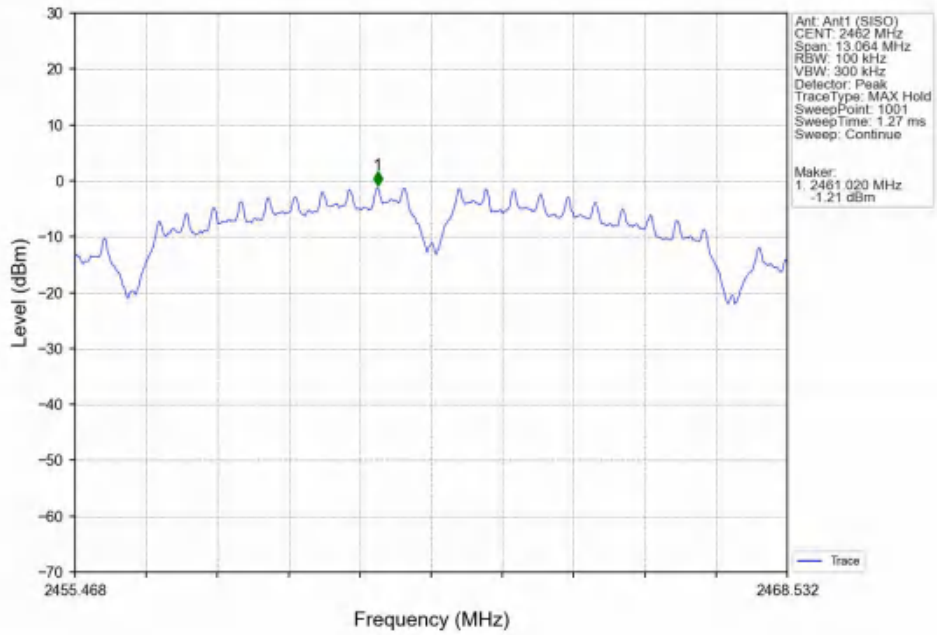
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



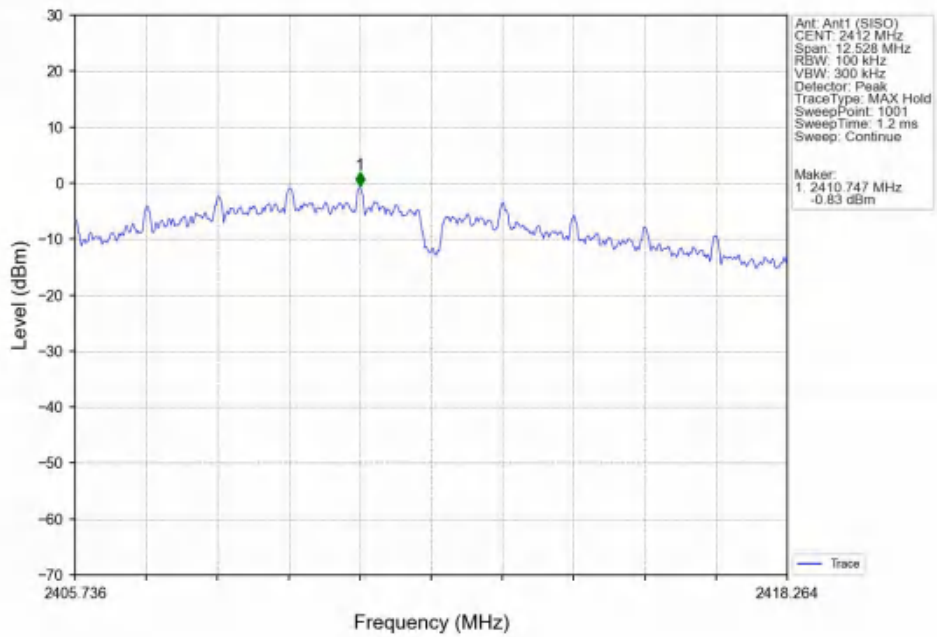
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



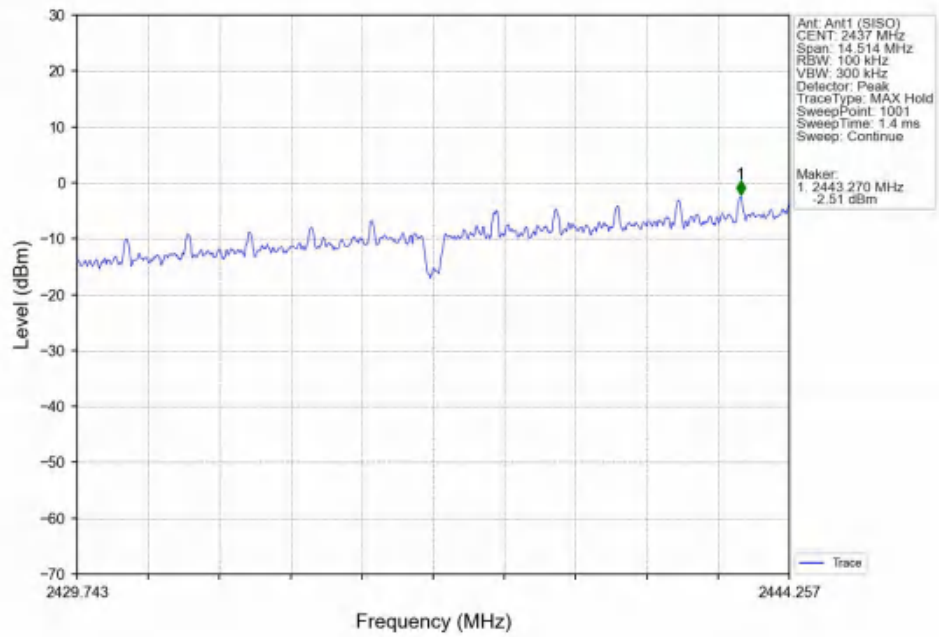
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



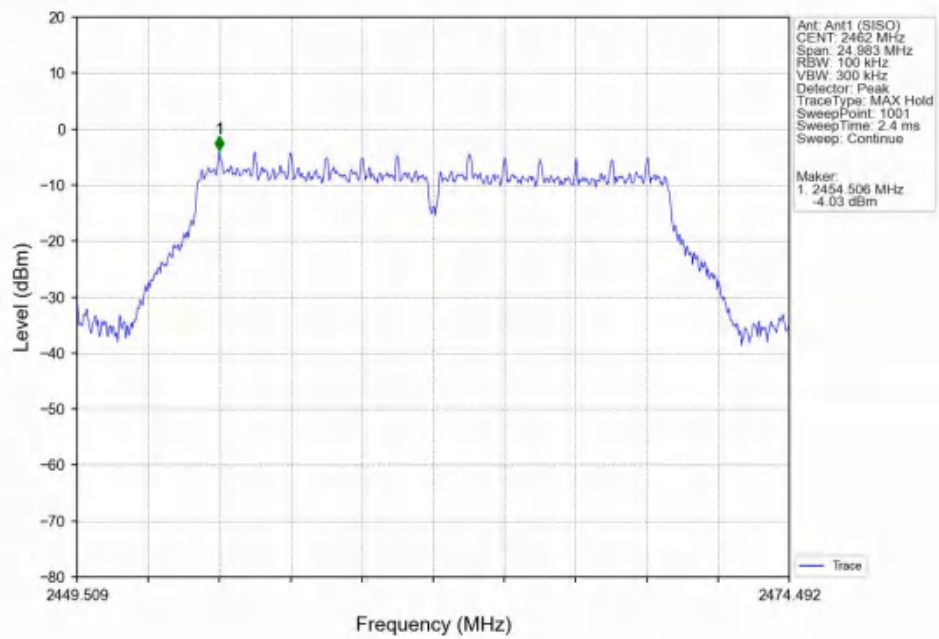
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



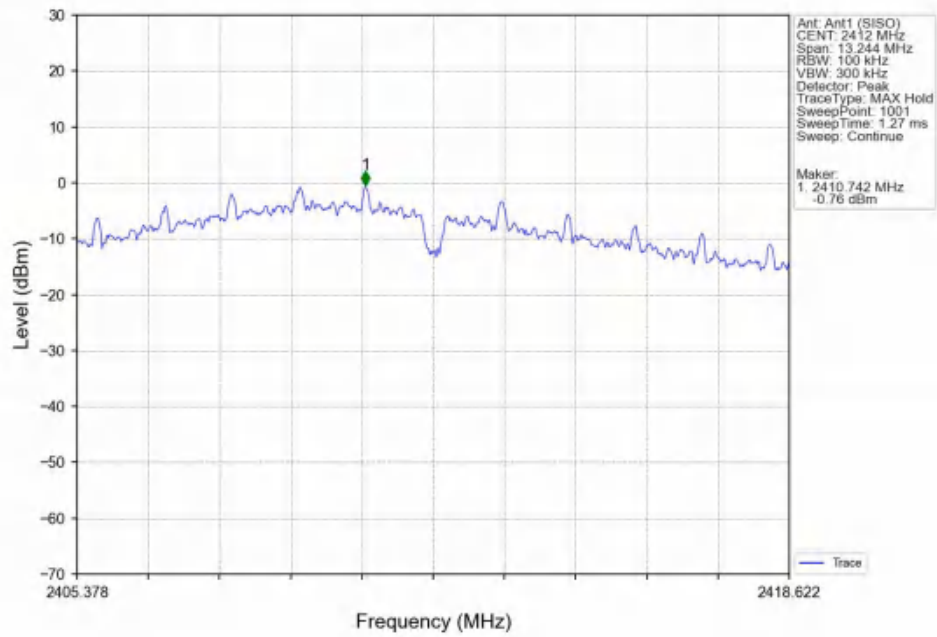
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



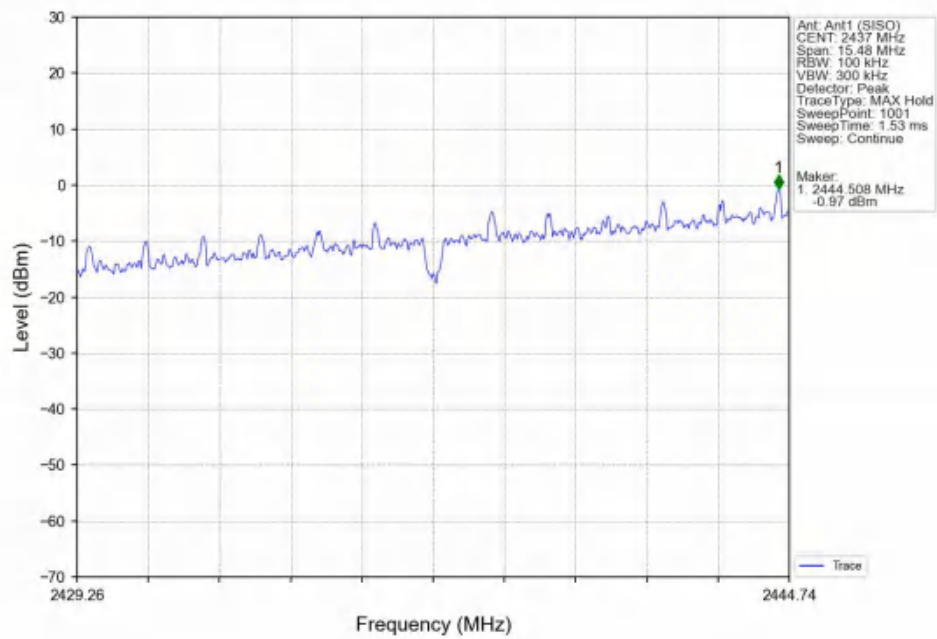
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



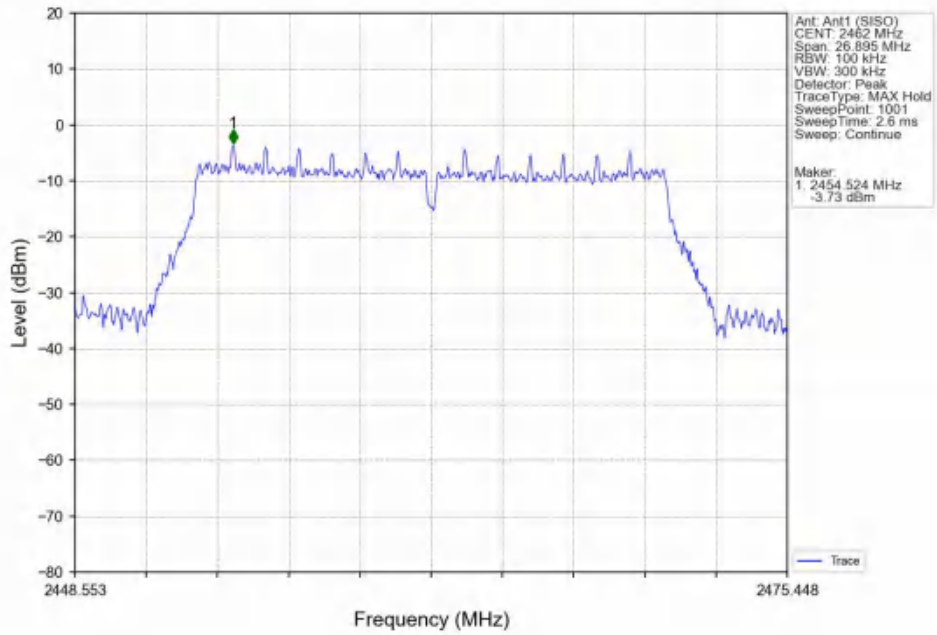
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



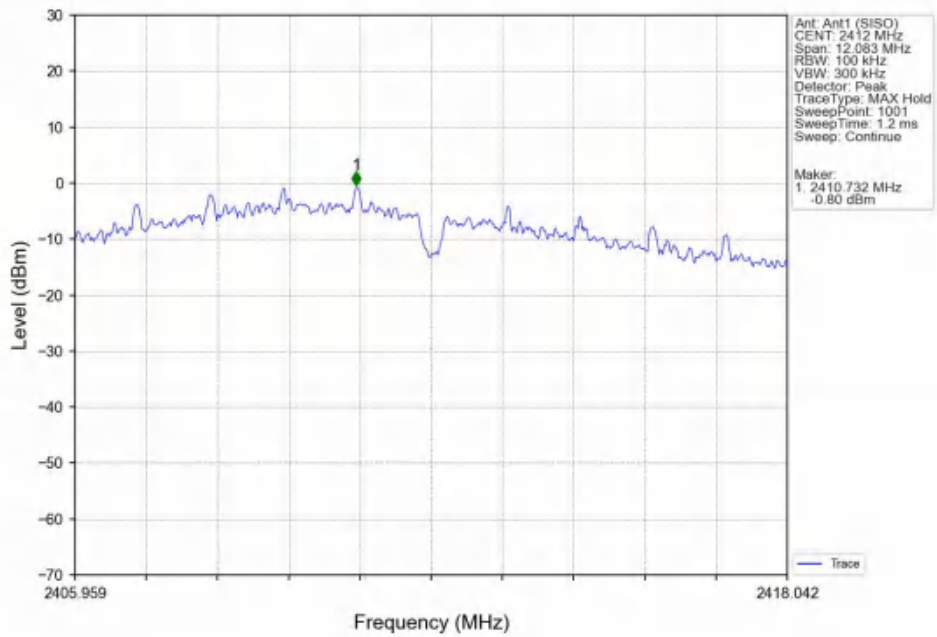
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



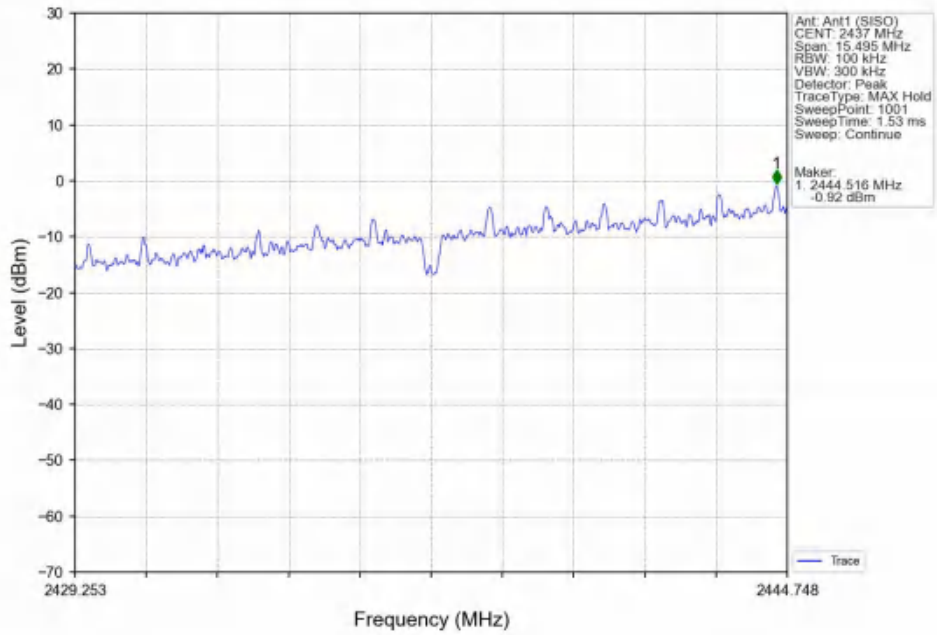
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



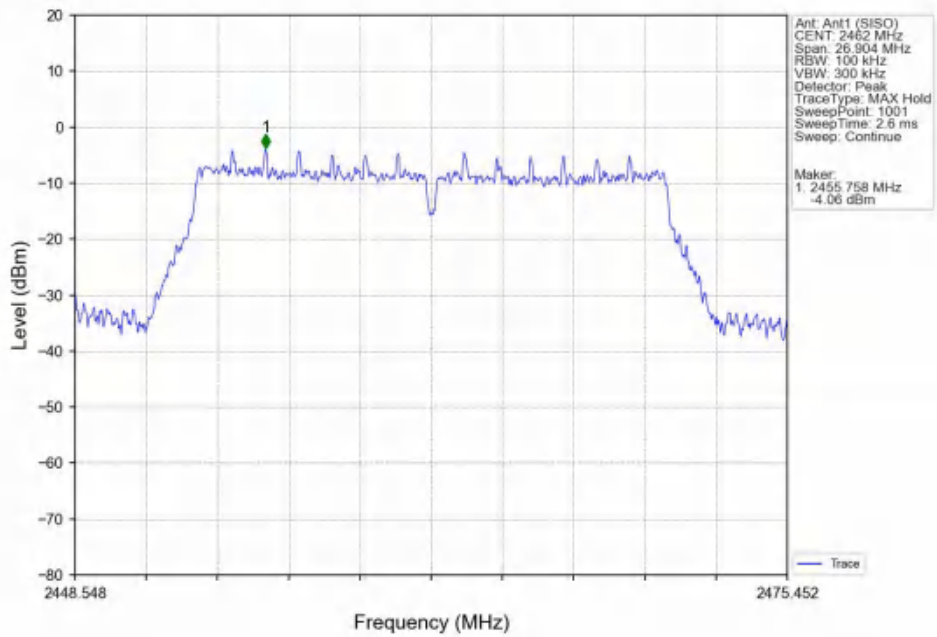
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



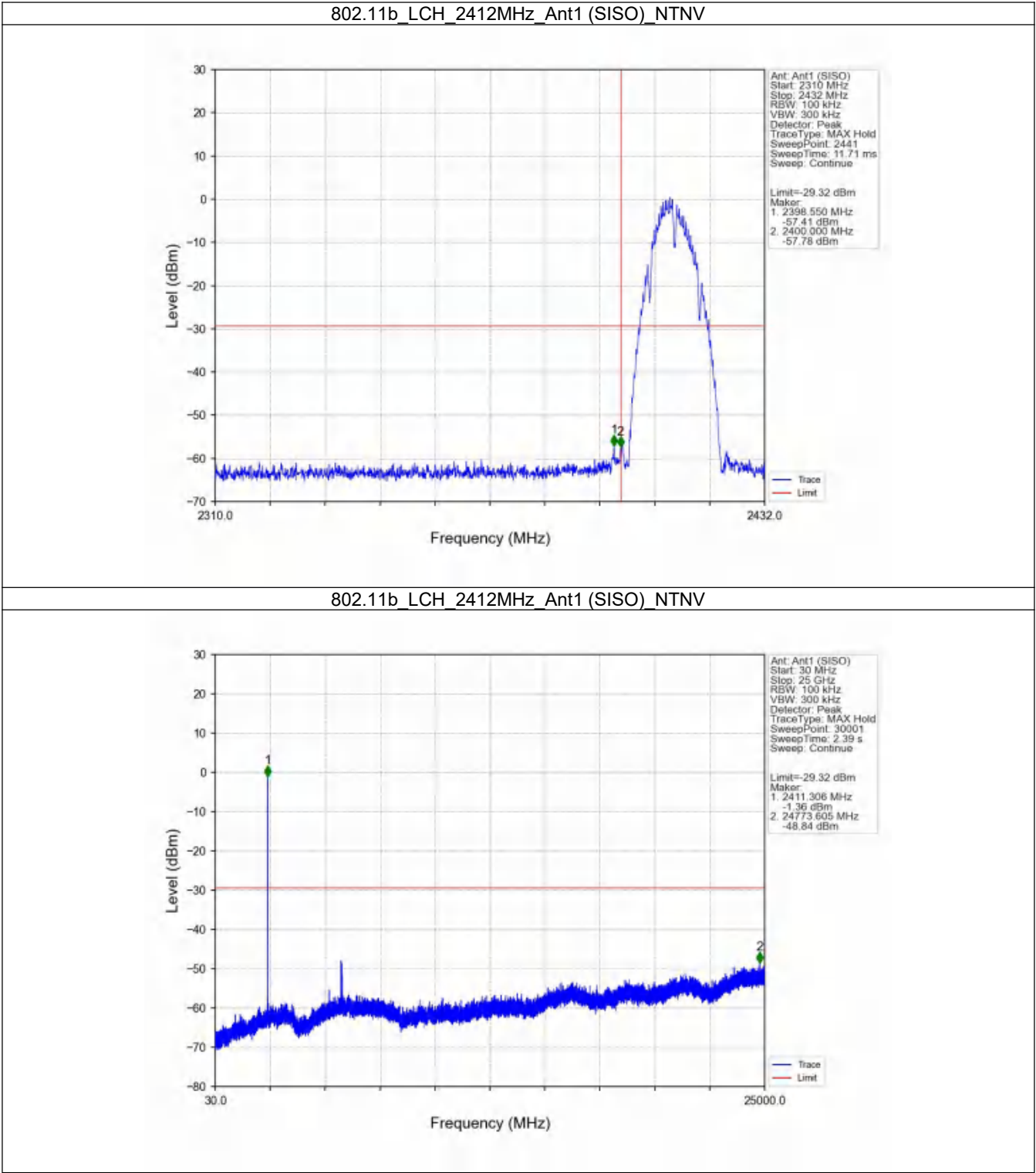
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



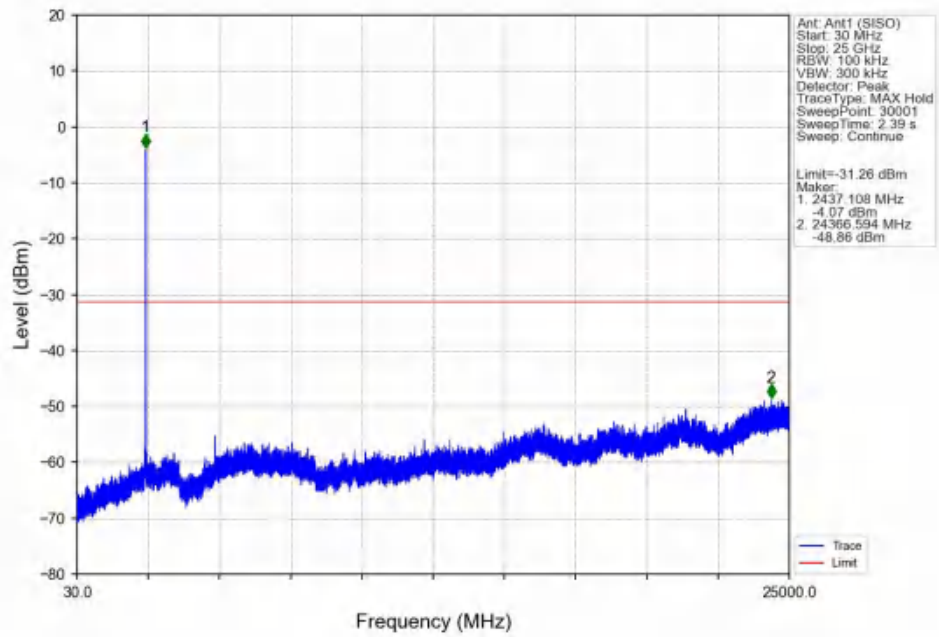
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



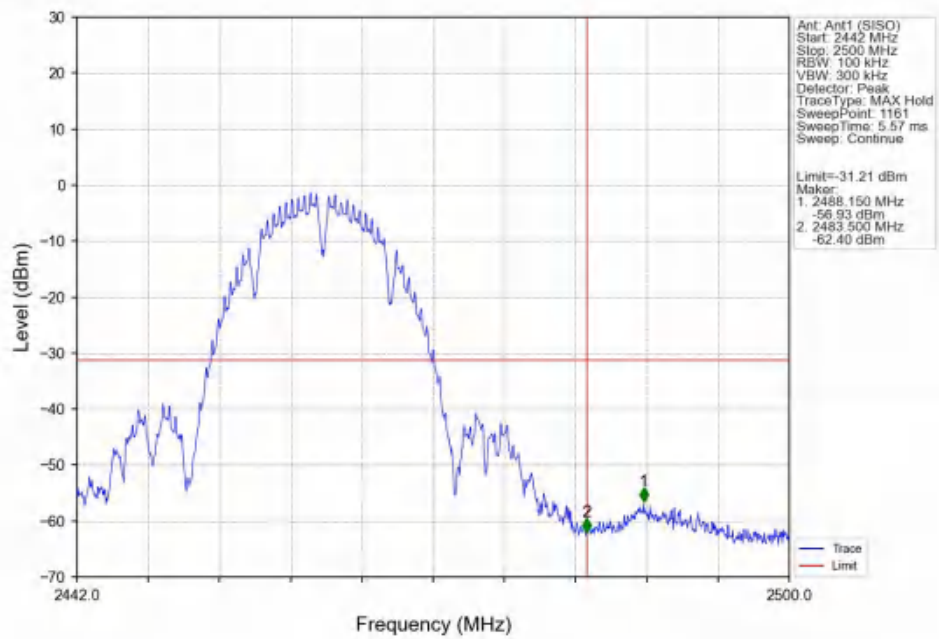
5.2.2 CSE



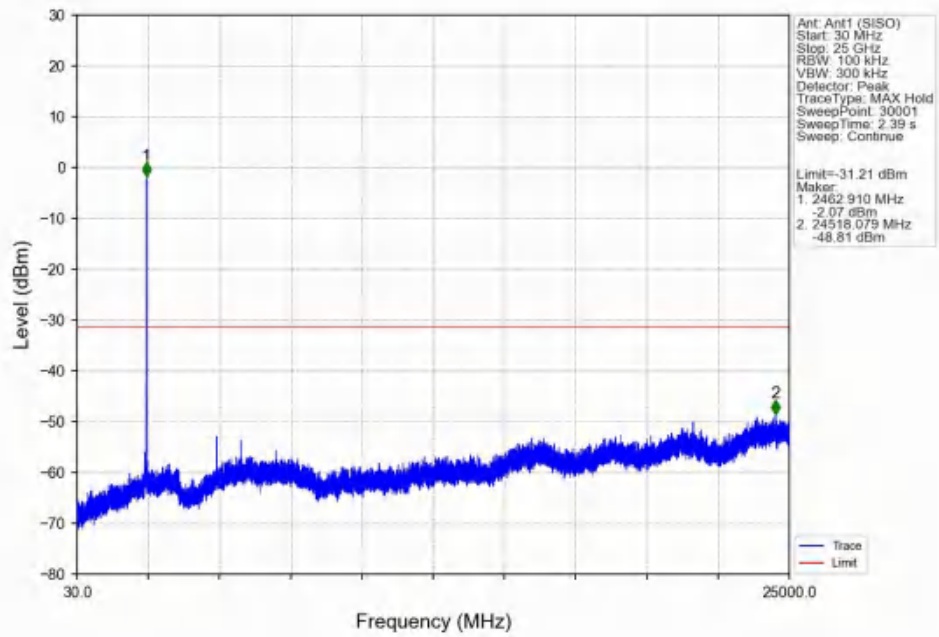
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



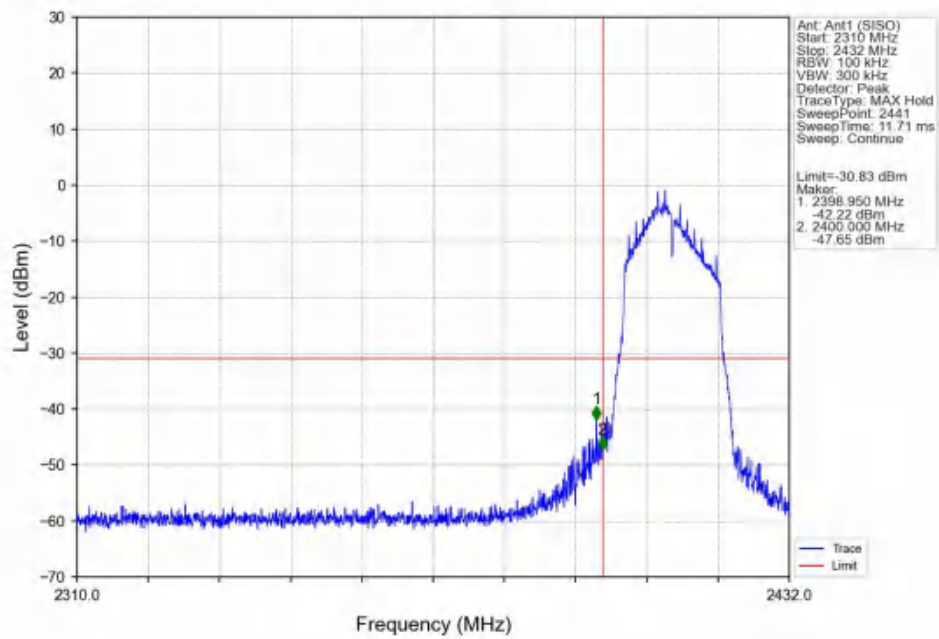
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



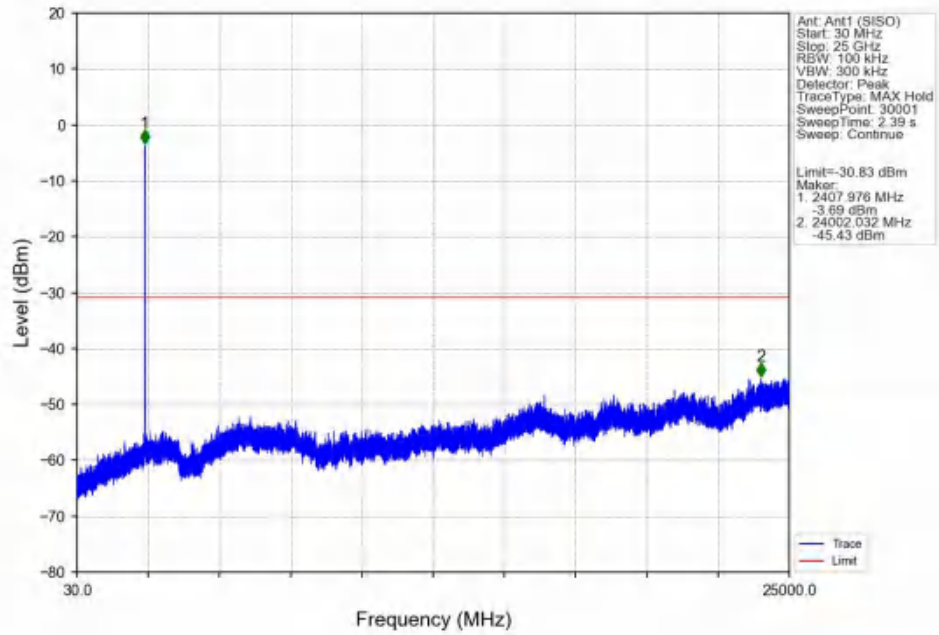
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



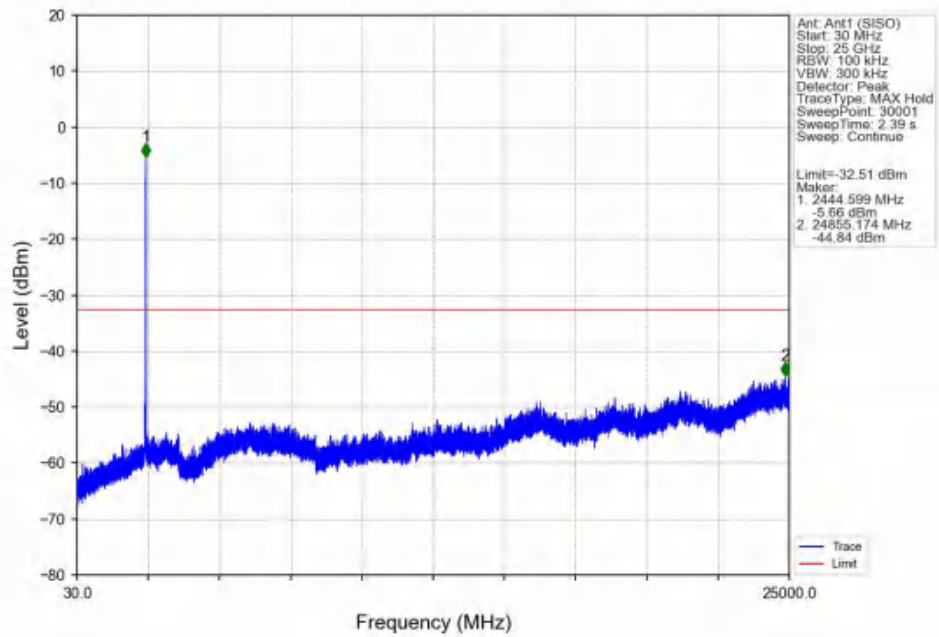
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



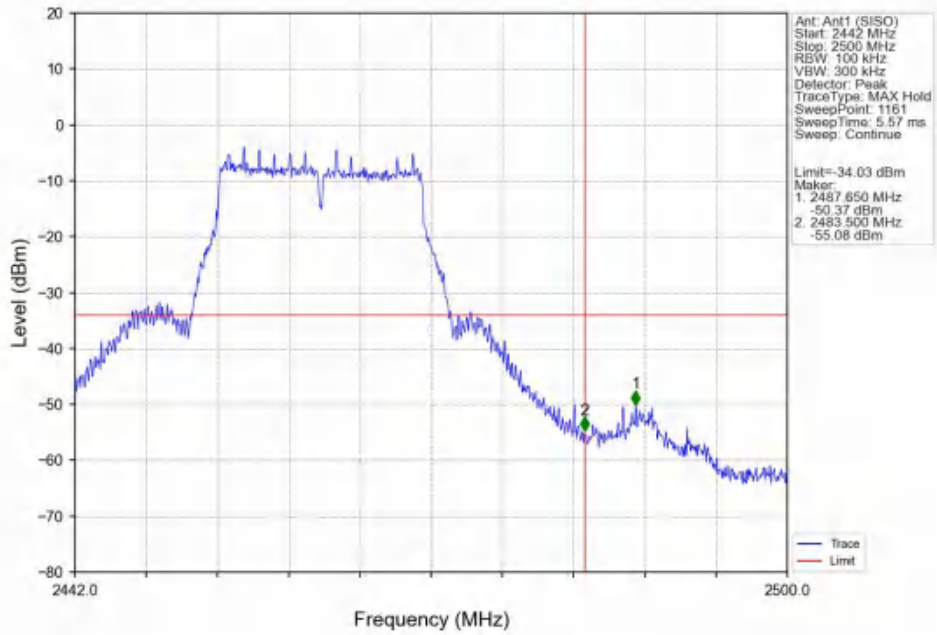
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



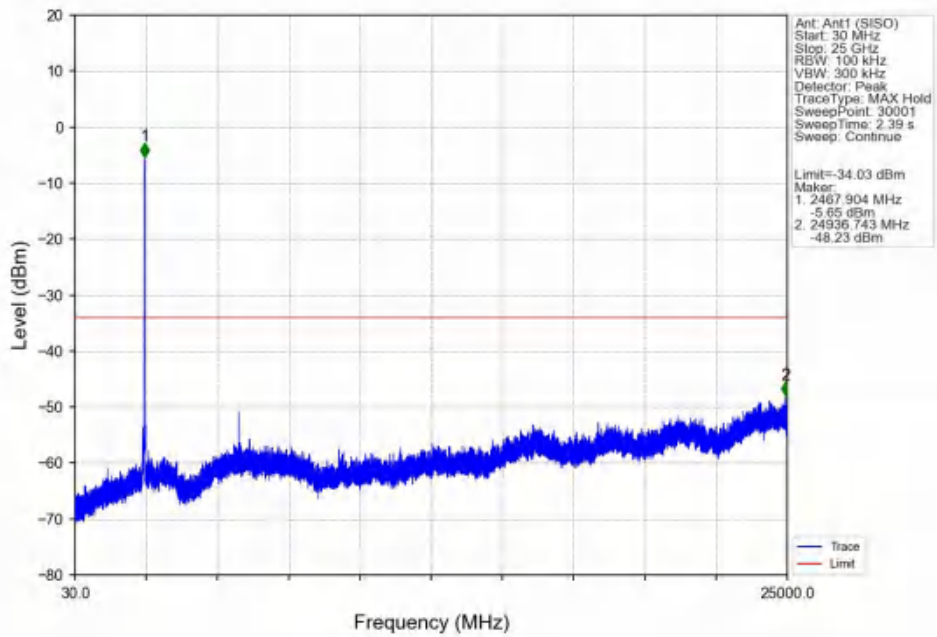
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



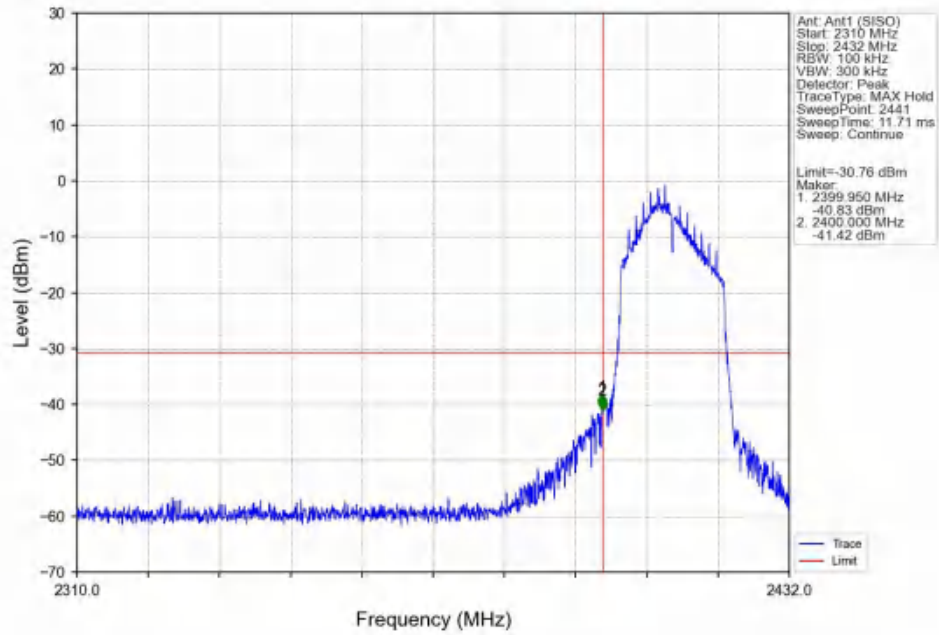
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



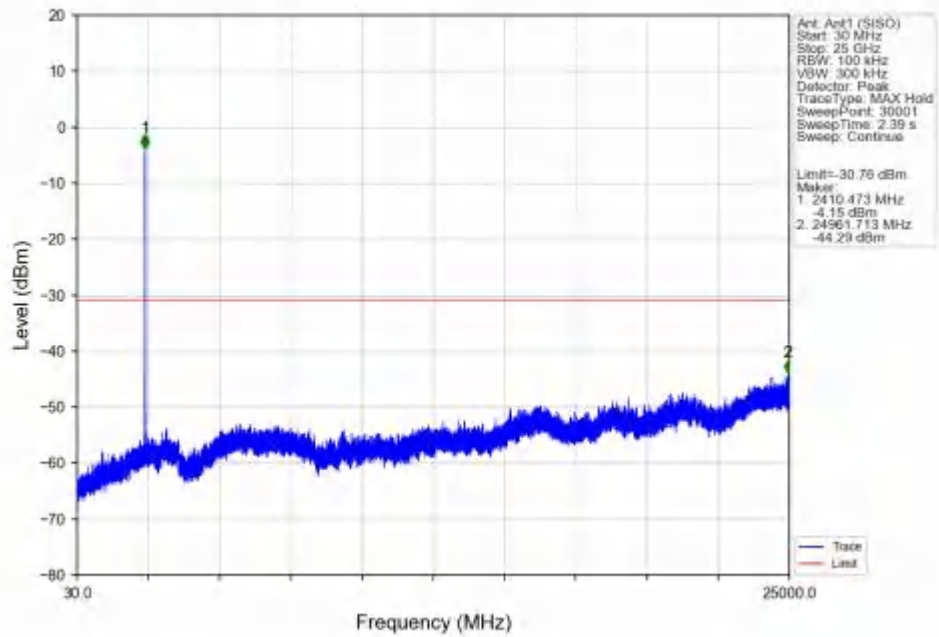
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



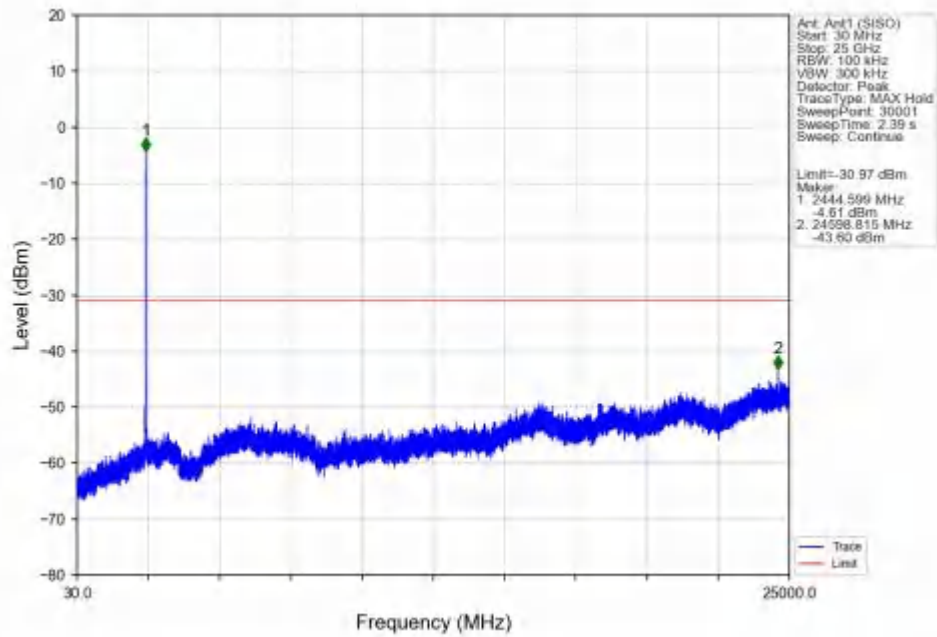
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



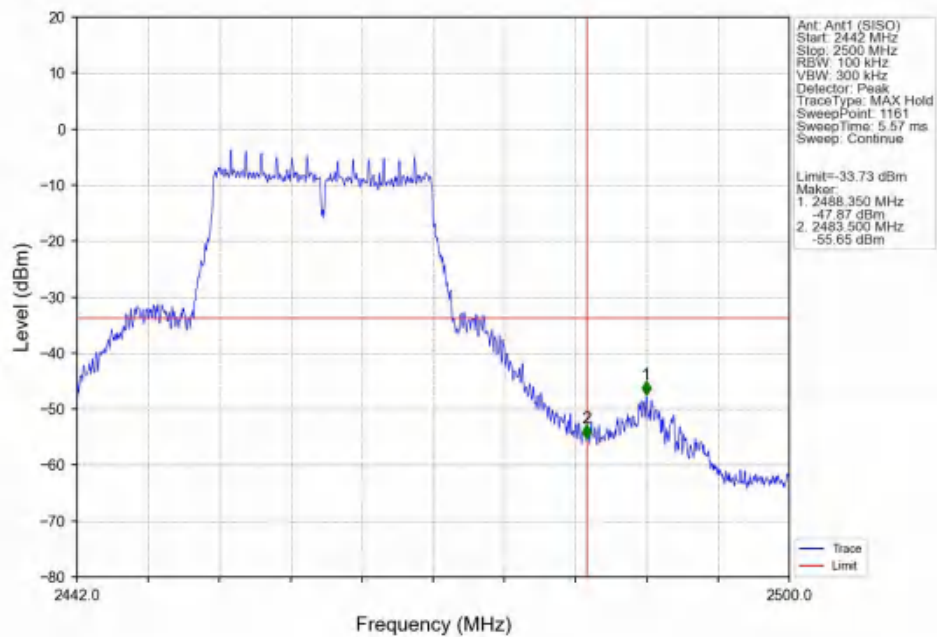
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



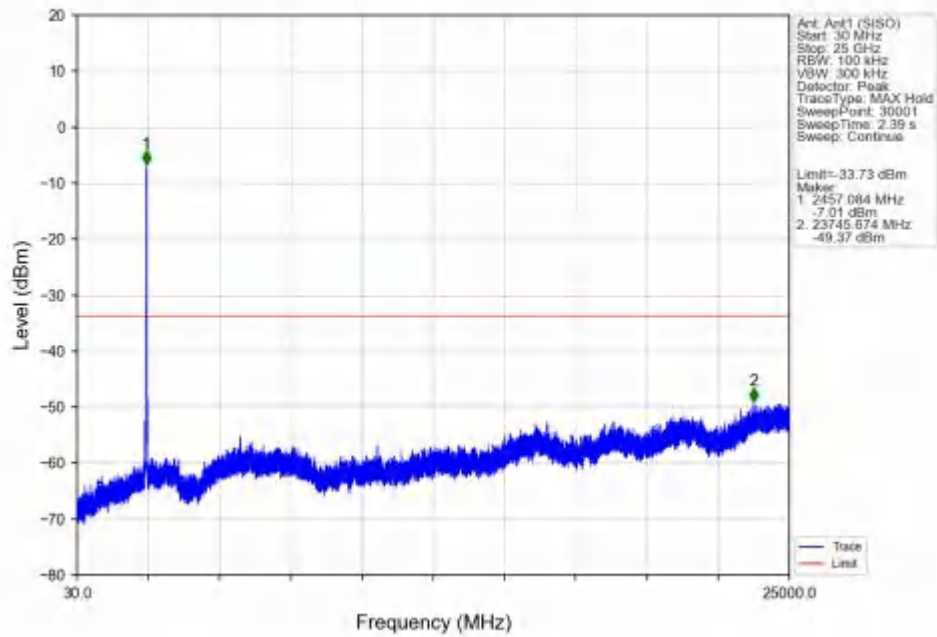
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



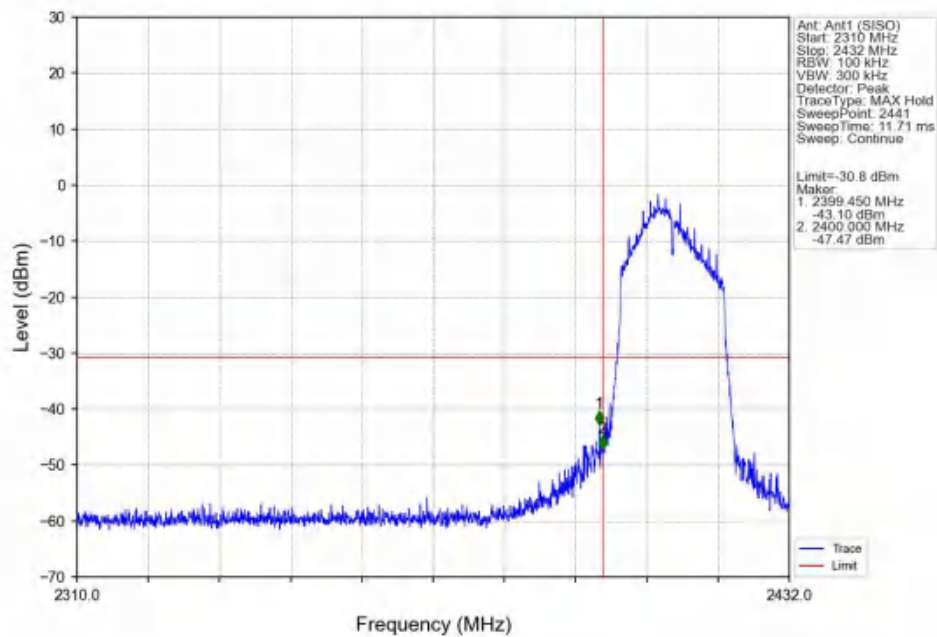
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



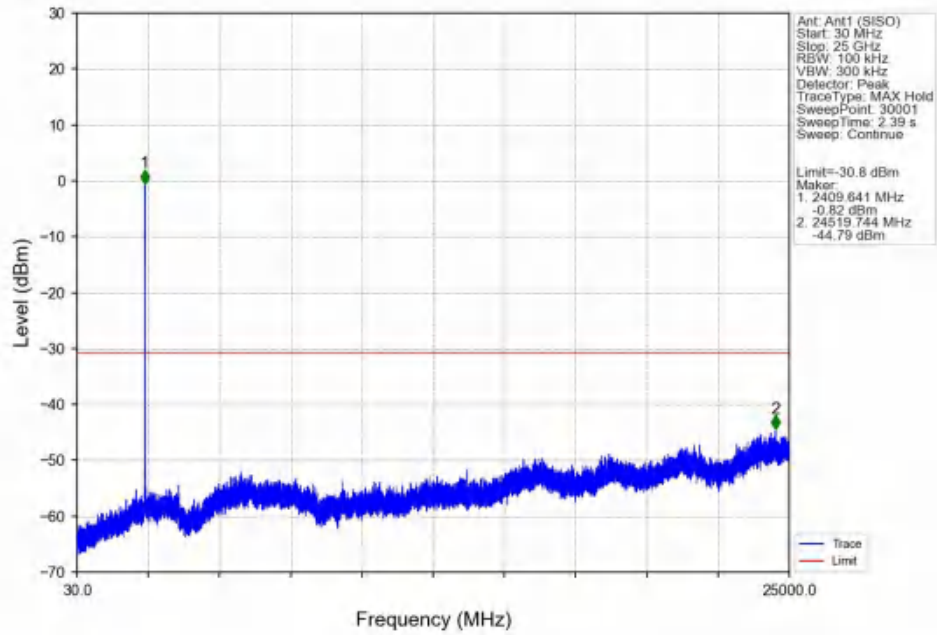
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



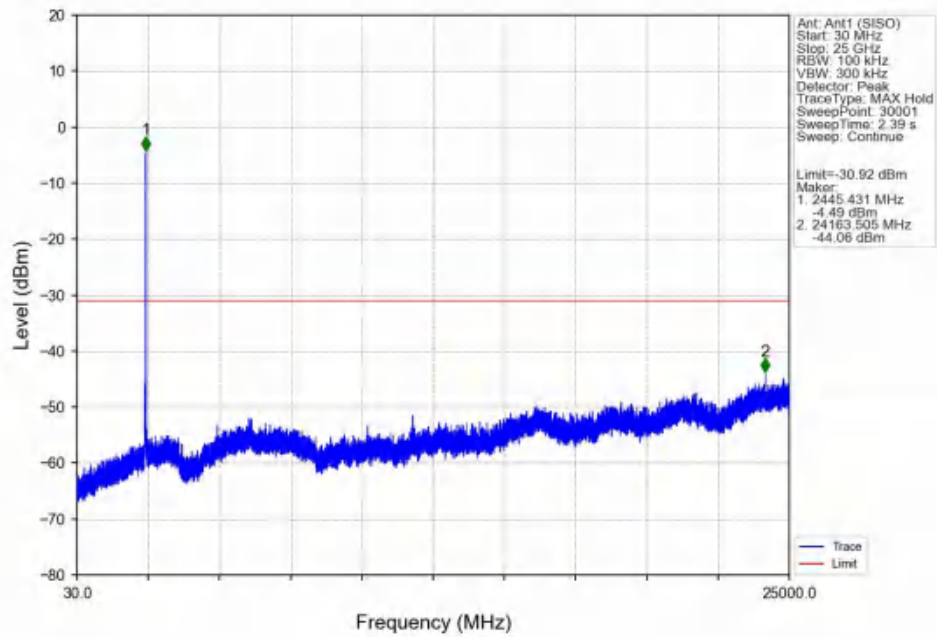
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



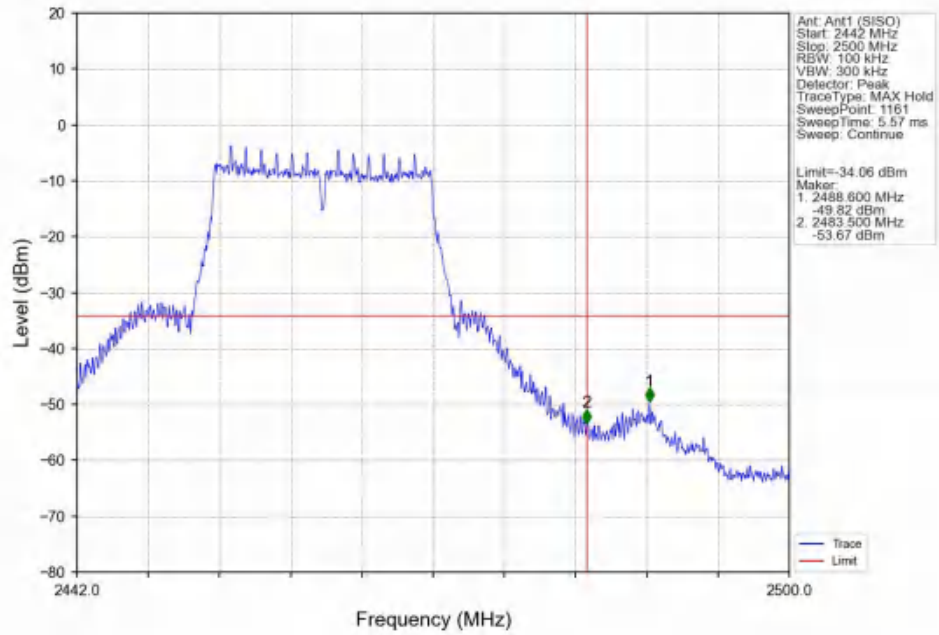
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



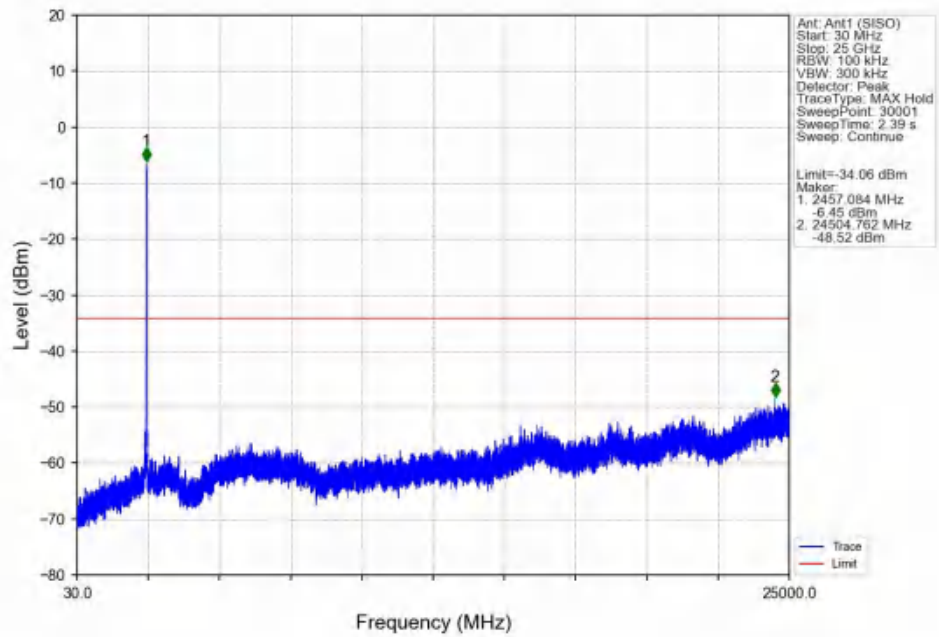
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



-THE END-